



Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Chimica si Biotehnologii

Departamentul: Chimie Organica „C. Nenițescu”

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Gradul didactic: Profesor

## LISTA

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

UPB 1999, *Complecsi tricarbonil crom aromatici chirali*

**Teza de abilitare, UPB 2016, *Exploiting natural compounds for the synthesis of new products and materials***

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Chira, N.-A., Stan, R., Roșca, S.I., Assessing authenticity of vegetable oils, in *Vegetable Oil: Properties, Uses and Benefits*, Nova Science Publishers, Inc., 2016, pag 25-54

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Nr crt	Autori	Titlu	An	Publicatie	volum	nr	Nr articol	Pag inceput	Pag sf.
1	Draghici-Popa A.-M.; Buliga D.-I.; Popa I.; Tomas S.T.; Stan R.; Boscornea A.C.	Cosmetic Products with Potential Photoprotective Effects Based on Natural Compounds Extracted from Waste of the Winemaking Industry	2024	Molecules	29	12	2775		
2	Slabu A.I.; Stan R.; Miu L.; Necolau M.I.; Balanuca B.; Teodorescu F.	Sustainable strategy for the synthesis of novel vegetable oil derived polymeric materials	2024	Polymers for Advanced Technologies	35	8	E6532		
3	Ghibu E.; Vasile V.; Caraș I.; Giol E.D.; Banu N.D.; Vuluga D.M.; Stan R.; Jerca V.V.; Jerca F.A.	Poly(2-isopropenyl-2oxazoline) Hydrogels with Biodegradable Junction Points for Drug-Delivery Applications	2024	Chemistry of Materials	36	15		7459	7475
4	Florea C.V.; Buică G.O.; Pandele M.A.; Onaș A.M.; Voicu M.-E.; Hanganu A.; Tecuceanu V.; Vasile G.-G.; Devan C.; Stan R.; Raicopol M.D.	Dual-function sensing platform for Hg(II) based on a redox-active thiosemicarbazone receptor	2024	Journal of Electroanalytical Chemistry	961		118251		

5	Slabu A.I., Miu L., Ghibu E., Stavarache C.E., Stan R., Teodorescu F.	Bioconjugation of Vegetable Oils with UV Absorbers: New Approach in Skin Photoprotection	2023	Molecules	28	22	7550		
6	Tociu M., Manolache F., Bălănuță B., Moroșan A., Stan R.	Superior Valorisation of <i>Juglans regia</i> L. Leaves of Different Maturity through the Isolation of Bioactive Compounds	2023	Molecules	28	21	7328		
7	Drăghici-Popa A.-M., Boscornea A.C., Brezoiu A.-M., Tomas Ș.T., Pârvulescu O.C., Stan R.	Effects of Extraction Process Factors on the Composition and Antioxidant Activity of Blackthorn ( <i>Prunus spinosa</i> L.) Fruit Extracts	2023	Antioxidants	12	10	1897		
8	Slabu A.I., Banu I., Pavel O.D., Teodorescu F., Stan R.	Sustainable RingOpening Reactions of Epoxidized Linseed Oil in Heterogeneous Catalysis	2023	Sustainability (Switzerland)	15	5	4197		
9	Balanuca B., Komartin R.S., Necolau M.I., Damian C.M., Stan R.	Investigating the Synthesis and Characteristics of UV Cured Bio-Based Epoxy Vegetable Oil-Lignin Composites Mediated by Structure-Directing Agents	2023	Polymers	15	2	439		
10	Ghitman J., Pircalabioru G.G., Zainea A., Marutescu L., Iovu H., Vasile E., Stavarache C., Vasile B.S., Stan R.	Macrophage-targeted mannose-decorated PLGA-vegetable oil hybrid nanoparticles loaded with antiinflammatory agents	2022	Colloids and Surfaces B: Biointerfaces	213		112423		
11	Dănilă E., Stan R., Kaya M.A., Voicu G., Marin M.M., Moroșan A., Titorencu I., Țuțuianu R.	Valorization of <i>Cyprinus Carpio</i> Skin for Biocompatible Collagen Hydrolysates with Potential Application in Foods, Cosmetics and Pharmaceuticals	2022	Waste and Biomass Valorization	13	2		917	928
12	Slabu A., Banu N.D., Balanuca B., Teodorescu F., Stan R.	Plant-Based Resins Obtained from Epoxidized Linseed Oil Using A MgAl Hydrotalcite Catalyst	2022	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	84	2		45	54

13	Ispas G.C., Raduly M.F., Raditoiu V., Stan R., Raditoiu A., Purcar V.	Extraction And Characterization of Bioactive Compounds from Ginger (Zingiber Officinale)	2022	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	84	2		129	140
14	Komartin R.S., Balanuca B., Necolau M.I., Cojocaru A., Stan R.	Composite materials from renewable resources as sustainable corrosion protection coatings	2021	Polymers	13	21	3792		
15	Balanuca B., Ott C., Damian C.M., Iovu H., Trusca R., Stan R.	Exploring the potential of inexpensive high oleic sunflower oil for new polymeric architectures	2021	Polymers for Advanced Technologies	32	4		1813	1821
16	Komartin R.S., Stroescu M., Chira N., Stan R., StoicaGuzun A.	Optimization of oil extraction from Lallelantia iberica seeds using ultrasound-assisted extraction	2021	Journal of Food Measurement and Characterization	15	2		2010	2020
17	Neagu A.-M., Codreanu C.-M., Staicu V., Stan R.	Bioactive Polyphenolic Compounds from Motherwort and Hawthorn Hydroethanolic Extracts	2021	Studia Universitatis Babes-Bolyai Chemia	66	4		123	132
18	Neagu M., Luntraru C., Bira A., Tomescu J., Ionescu N., Stan R.	Bioactive phenolic compounds from white willow (Salix alba) bark, leaves and branches	2021	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	83	3		41	50
19	Damian C.M., Ott C., Stan R., Hanganu A., Trusca R., Balanuca B.	Harnessing a byproduct from wastewater treatment to obtain improved starch/poly(vinyl alcohol) composites	2020	Carbohydrate Polymers	238		115777		
20	Laslau C., Gologan D., Ott C., Balanuca B., Stan R.	Niosomes loaded with ascorbic acid – influence of surfactants on stability and morphology	2020	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	82	3		101	112
21	Ghitman J., Stan R., Vlasceanu G., Vasile E., Iovu H.	Predicting the drug loading efficiency into hybrid nanocarriers based on PLGA-vegetable oil using molecular dynamic simulation approach and Flory-Huggins theory	2019	Journal of Drug Delivery Science and Technology	53		101203		
22	Lacatusu I., Badea N., Badea G., Mihaila M., Ott C., Stan R., Meghea A.	Advanced bioactive lipid nanocarriers loaded with natural and synthetic anti-inflammatory actives	2019	Chemical Engineering Science	200			113	126

23	Lacatusu I., Badea N., Udeanu D., Coc L., Pop A., Cioates Negut C., Tanase C., Stan R., Meghea A.	Improved anti-obesity effect of herbal active and endogenous lipids co-loaded lipid nanocarriers: Preparation, in vitro and in vivo evaluation	2019	Materials Science and Engineering C	99			12	24
24	Dănilă E., Stan R., Enache A.E., Türkmen M., Kaya D.A., Kaya M.A., Serafim A.	Obtaining and characterization of some emulsions based on collagen hydrolysate and natural extracts with a potential anticellulitic action	2019	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	81	4		73	84
25	Komartin R.S., Stan R., Bălănuță B., Chira N., Hanganu A.	Treatment of the oil of <i>Lallemantia iberica</i> with activated adsorbents	2019	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	81	4		95	106
26	Ghitman J., Stan R., Cecoltan S., Chifiriuc M.C., Iovu H.	Hybrid nanocarriers based on PLGA-vegetable oil: A novel approach for high lipophilic drug delivery	2018	Journal of Drug Delivery Science and Technology	46			162	172
27	Balanuca B., Ghebaur A., Stan R., Vuluga D.M., Vasile E., Iovu H.	New hybrid materials based on doublefunctionalized linseed oil and halloysite	2018	Polymers for Advanced Technologies	29	6		1744	1752
28	Ghitman J., Stan R., Ghebaur A., Cecoltan S., Vasile E., Iovu H.	Novel PEG-modified hybrid PLGA-vegetable oils nanostructured carriers for improving performances of indomethacin delivery	2018	Polymers	10	6	579		
29	Badea G., Badea N., Brasoveanu L.I., Mihaila M., Stan R., Istrati D., Balaci T., Lacatusu I.	Naringenin improves the sunscreen performance of vegetable nanocarriers	2017	New Journal of Chemistry	41	2		480	492
30	Balanuca B., Stan R., Lungu A., Vasile E., Iovu H.	Hybrid networks based on epoxidized camelina oil	2017	Designed Monomers and Polymers	20	1		10	17
31	Anastasiu A.-E., Chira N.-A., Banu I., Ionescu N., Stan R., Rosca S.-I.	Oil productivity of seven Romanian linseed varieties as affected by weather conditions	2016	Industrial Crops and Products	86			219	230
32	Chira N.A., Nicolescu A., Stan R., Rosca S.	Fatty acid composition of vegetable oils determined from <sup>13</sup> CNMR spectra	2016	Revista de Chimie	67	7		1257	1263

33	Istrati D., Lacatusu I., Bordei N., Badea G., Oprea O., Stefan L.M., Stan R., Badea N., Meghea A.	Phyto-mediated nanostructured carriers based on dual vegetable actives involved in the prevention of cellular damage	2016	Materials Science and Engineering C	64			249	259
34	Lacatusu I., Badea N., Badea G., Brasoveanu L., Stan R., Ott C., Oprea O., Meghea A.	Ivy leaves extract based - Lipid nanocarriers and their bioefficacy on antioxidant and antitumor activities	2016	RSC Advances	6	81		77243	77255
35	Ott C., Lacatusu I., Badea G., Grafu I.A., Istrati D., Babeanu N., Stan R., Badea N., Meghea A.	Exploitation of amaranth oil fractions enriched in squalene for dual delivery of hydrophilic and lipophilic actives	2015	Industrial Crops and Products	77			342	352
36	Balanuca B., Stan R., Hanganu A., Lungu A., Iovu H.	Design of new camelina oil-based hydrophilic monomers for novel polymeric materials	2015	JAOCS, Journal of the American Oil Chemists' Society	92	6	2654	881	891
37	Lacatusu I., Badea N., Badea G., Oprea O., Mihaila M.A., Kaya D.A., Stan R., Meghea A.	Lipid nanocarriers based on natural oils with high activity against oxygen free radicals and tumor cell proliferation	2015	Materials Science and Engineering C	56			88	94
38	Badea G., Bors A.G., Lacatusu I., Oprea O., Ungureanu C., Stan R., Meghea A.	Influence of basil oil extract on the antioxidant and antifungal activities of nanostructured carriers loaded with nystatin	2015	Comptes Rendus Chimie	18	6		668	677
39	Balanuca B., Lungu A., Conicov I., Stan R., Vasile E., Vuluga D.M., Iovu H.	Novel bio-based IPNs obtained by simultaneous thermal polymerization of flexible methacrylate network based on a vegetable oil and a rigid epoxy	2015	Polymers for Advanced Technologies	26	1		19	25

#### E. Brevete obținute în întreaga activitate

1. Niculae G, Lacatusu I, Badea M N, Stan R, Meghea A, LIPID NANOCARRIERS BASED ON VEGETABLE OILS WITH PHOTOPROTECTION AND ANTIOXIDANT PROPERTIES, RO130098-B/2018
2. Lacatusu I, Badea M N, L.G R Stan, Hanganu A, Meghea A, ANTIOXIDANT LIPID NANOPARTICLES AND PROCESS FOR OBTAINING THE SAME, RO128703-B/2018
3. Badea G, Badea N, Bordei N, Istrati D, Lacatusu I, Meghea A, Moldovan L, Panteli I, Popescu M, Rasit I, Stan , R, LIPIDIC NANOTRANSPORTERS CHARGED WITH VEGETAL AND SYNTHETIC ACTIVE PRINCIPLES PROVIDING AMPLIFIED ANTI-INFLAMMATORY EFFECT, RO131955-B1/ 2019
4. Lacatusu I, Badea N, Badea G, Ott C, Stan R, Istrati D, Popa O, Meghea A, PLANT SQUALENE-BASED NANOCARRIERS CAPABLE TO CO-ENCAPSULATE HYDROPHILIC AND LIPOPHILIC MEDICAMENTS, RO131547-B1/2020