

Prof. Raluca STAN

List of publications

Nr.	Authors	Title	Year	Source title	Vol.	Iss.	Art. No.	Page start	Page end	DOI
1	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 anti-inflammatory agents	2022	Colloids and Surfaces B: Biointerfaces	213		112423			10.1016/j.colsurfb.2022.112423
2	Stavarache, C., Nicolescu, A., Duduianu, C., Ailisei, G.L., Balan-Porcărașu, M., Cristea, M., Macsim, A.-M., Popa, O., Stavarache, C., Hîrtopeanu, A., Barbeș, L., Stan, R., Iovu, H., Deleanu, C.	A Real-Life Reproducibility Assessment for NMR Metabolomics	2022	Diagnostics	12	3	559			10.3390/diagnostics12030559
3	Dănilă, E., Stan, R., Kaya, M.A., Voicu, G., Marin, M.M., Moroșan, A., Țitorenco, I., Țuțuianu, R.	Valorization of Cyprinus Carpio Skin for Biocompatible Collagen Hydrolysates with Potential Application in Foods, Cosmetics and Pharmaceuticals	2022	Waste and Biomass Valorization	13	2		917	928	10.1007/s12649-021-01569-w

4	Istrati, D., Moroşan, A., Stan, R., Vasile, B.Ş., Vasilevici, G., Oprea, O., Dolete, G., Purcăreanu, B., Mihaiescu, D.E.	Microwave-assisted sol-gel preparation of the nanostructured magnetic system for solid-phase synthesis	2021	Nanomaterials	11	12	3176			10.3390/nano11123176
5	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			10.3390/polym13213792
6	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	10.1002/pat.5222
7	Komartin, R.S., Stroescu, M., Chira, N., Stan, R., Stoica-Guzun, A.	Optimization of oil extraction from Lallemania iberica seeds using ultrasound-assisted extraction	2021	Journal of Food Measurement and Characterization	15	2		2010	2020	10.1007/s11694-020-00790-w
8	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	10.24193/subbchem.2021.4.09

9	Neagu, M., Luntraru, C., Bîra, A., Tomescu, J., Ionescu, N., Stan, R.	Bioactive phenolic compounds from white willow (<i>Salix alba</i>) bark, leaves and branches	2021	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	83	3		41	50	
10	Ștefan, A.E., Gologan, D., Leavitt, M.O., Mușat, S., Pleșea, I.E., Stan, L.G.R., Pleșea, R.M., Militaru, M.	Tissue microarrays – brief history, techniques and clinical future	2020	Romanian Journal of Morphology and Embryology	61	4		1077	1083	10.47162/RJME.61.4.10
11	Ghitman, J., Biru, E.I., Stan, R., Iovu, H.	Review of hybrid PLGA nanoparticles: Future of smart drug delivery and theranostics medicine	2020	Materials and Design	193		108805			10.1016/j.matdes.2020.108805
12	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			10.1016/j.carbpol.2019.115777
13	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	
14	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			10.1016/j.jddst.2019.101203

15	Moroşan, A., MIHAIESCU, D.E., Istrati, D., Voicu, G., Radu, M., Hanganu, A., Stan, R.	Functionalized silica shell magnetic nanoparticles for nanophase peptide synthesis applications	2019	Microporous and Mesoporous Materials	286			45	56	10.1016/j.micromeso.2019.05.018
16	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 improved anti-obesity effect of herbal active and endogenous lipids co-loaded lipid nanocarriers: Preparation, in vitro and in vivo evaluation	2019	Chemical Engineering Science	200			113	126	10.1016/j.ces.2019.01.044
17	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	10.1016/j.msec.2019.01.071
18	Ghitman, J., Stan, R.L.	Studying the effect of PMG on the hydrodynamic characteristics and stability of PLGA-vegetable oil hybrid nanoparticles obtained by emulsion solvent evaporation method	2019	Materiale Plastice	56			857	864	10.37358/mp.19.4.5277
19	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	

20	Komartin, R.S., Stan, R., Bălănuță, B., Chira, N., Hanganu, A.	Treatment of the oil of Lallelantia iberica with activated adsorbents	2019	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	81	4		95	106	
21	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	10.1016/j.jddst.2018.05.012
22	Balanuca, B., Ghebaur, A., Stan, R., Vuluga, D.M., Vasile, E., Iovu, H.	New hybrid materials based on double-functionalized linseed oil and halloysite	2018	Polymers for Advanced Technologies	29	6		1744	1752	10.1002/pat.4279
23	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			10.3390/polym10060579
24	Moroșan, A., Mihaiescu, D.E., Istrati, D., Voicu, G., Fudulu, A., Stan, R.	Polar shell magnetic nanostructured systems for heterogeneous nanophase reactions	2018	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	80	3		53	64	
25	Al Tameemi, M.B.M., Stan, R., Prisacari, V., Voicu, G., Popa, M., Chifiriuc, M.C., Ott, C., Marton, G., Meghea, A.	Antimicrobial performance of nanostructured silica–titania sieves loaded with izohidrafural against microbial strains isolated from urinary tract infections	2017	Comptes Rendus Chimie	20	5		475	483	10.1016/j.crci.2016.09.007

26	Ghitman, J., Stan, R., Iovu, H.	Experimental contributions in the synthesis of plga nanoparticles with excellent properties for drug delivery: Investigation of key parameters	2017	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	79	2	101	112	
27	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	10.1039/C6NJ02318E
28	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	10.1080/15685551.2016.1231031
29	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	10.1016/j.indcrop.2016.03.051
30	Chira, N.A., Nicolescu, A., Stan, R., Rosca, S.	Fatty acid composition of vegetable oils determined from 13C-NMR spectra	2016	Revista de Chimie	67	7	1257	1263	
31	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	10.1016/j.msec.2016.03.087
32	Chira, N.-A., Stan, R., Roșca, S.I.	Assessing authenticity of vegetable oils	2016	Vegetable Oil: Properties, Uses and Benefits			25	54	

33	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	10.1039/c6ra12016d
34	Ott, C., Parlea, E., Stan, R., Ungureanu, E.-M., Rosca, S.I.	Mechanism of acid catalyzed condensation of tricarbonyl-chromium complexed benzylic acetates with reactive arenes	2016	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	78	1	39	50	
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	10.1016/j.indcrop.2015.08.057
36	Al Tameemi, M.B.M., Mihaiescu, D., Stan, R., Meghea, A., Voicu, G., Vasile, B.S., Traistaru, V., Istrati, D.	Novel nanostructured molecular sieves of silica with included titanium dioxide: Preparation and characteristics	2015	Digest Journal of Nanomaterials and Biostructures	10	4	1229	1235	
37	Chira, N., Stan, R., Todasca, C., Maganu, M., Constantinescu, T., Garea, S., Rosca, S.	Azo dye functionalized monomer derived from linseed oil	2015	Revista de Chimie	66	7	937	941	
38	Popa, M.M., Georgescu, E., Caira, M.R., Georgescu, F., Draghici, C., Stan, R., Deleanu, C., Dumitrascu, F.	Indolizines and pyrrolo[1,2-c]pyrimidines decorated with a pyrimidine and a pyridine unit respectively	2015	Beilstein Journal of Organic Chemistry	11		1079	1088	10.3762/bjoc.11.121

39	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	10.1007/s11746-015-2654-z
40	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	10.1016/j.msec.2015.06.019
41	Al Tameemi, M.B.M., Gudovan, D., Stan, R., Mihăiescu, D., Ott, C.	MCM-41 and nanostructured silica nanotubes: A comparison of drug delivery abilities [MCM-41 și nanotuburi de silice nanostructurate : O comparație a abilităților de eliberare controlată]	2015	Revista Romana de Materiale/ Romanian Journal of Materials	45	2		188	193	
42	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	10.1016/j.crci.2014.09.012
43	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	10.1002/pat.3413

44	Lacatusu, I., Badea, N., Niculae, G., Bordei, N., Stan, R., Meghea, A.	Lipid nanocarriers based on natural compounds: An evolving role in plant extract delivery	2014	European Journal of Lipid Science and Technology	116	12	1708	1717	10.1002/ejlt.201300488
45	Lacatusu, I., Niculae, G., Badea, N., Stan, R., Popa, O., Oprea, O., Meghea, A.	Design of soft lipid nanocarriers based on bioactive vegetable oils with multiple health benefits	2014	Chemical Engineering Journal	246		311	321	10.1016/j.cej.2014.02.041
46	Balanuca, B., Lungu, A., Hanganu, A.-M., Stan, L.R., Vasile, E., Iovu, H.	Hybrid nanocomposites based on POSS and networks of methacrylated camelina oil and various PEG derivatives	2014	European Journal of Lipid Science and Technology	116	4	458	469	10.1002/ejlt.201300370
47	Niculae, G., Lacatusu, I., Bors, A., Stan, R.	Photostability enhancement by encapsulation of α -tocopherol into lipid-based nanoparticles loaded with a UV filter	2014	Comptes Rendus Chimie	17	10	1028	1033	7 10.1016/j.crci.2013.12.007
48	Bălănuță, B., Stan, R., Hanganu, A., Iovu, H.	Novel linseed oil-based monomers: Synthesis and characterization	2014	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	76	3	129	140	
49	Bors, A., Miculae, G., Stan, R., Meghea, A.	Lipid nanocarriers with antifungal activity prepared by high pressure homogenization	2014	Revista de Chimie	65	6	671	675	

50	Niculae, G., Lacatusu, I., Badea, N., Meghea, A., Stan, R.	Influence of vegetable oil on the synthesis of bioactive nanocarriers with broad spectrum photoprotection	2014	Central European Journal of Chemistry	12	8	837	850	10.2478/s11532-014- 0503-9
51	Niculae, G., Lacatusu, I., Badea, N., Stan, R., Vasile, B.S., Meghea, A.	Rice bran and raspberry seed oil-based nanocarriers with self- antioxidative properties as safe photoprotective formulations	2014	Photochemical and Photobiological Sciences	13	4	703	716	10.1039/c3pp50290b
52	Lacatusu, I., Mitrea, E., Badea, N., Stan, R., Oprea, O., Meghea, A.	Lipid nanoparticles based on omega-3 fatty acids as effective carriers for lutein delivery. Preparation and in vitro characterization studies	2013	Journal of Functional Foods	5	3	1260	1269	10.1016/j.jff.2013.04.010
53	Lacatusu, I., Badea, N., Stan, R., Meghea, A.	Novel bio-active lipid nanocarriers for the stabilization and sustained release of sitosterol	2012	Nanotechnology	23	45	455702		10.1088/0957- 4484/23/45/455702

54	Stan, R., Ott, C., Voicu, G., Lungu, A., Roșca, S.I.	Cr- doped nanostructured silica obtained via structure directing agents and chiral 1-phenylethylaminetricarbonyl- chromium [Silice nanostructurată dopată CU Cr obținută prin intermediul agenților de direcționare a structurii și a tricarbonil-crom-1-feniletilaminei chorale]	2011	Revista Romana de Materiale/ Romanian Journal of Materials	41	3		234	239
55	Șulcă, N.M., Munteanu, A.V., Popescu, R.G., Lungu, A., Stan, R., Iovu, H.	Dibenzylidene sorbitol derivatives for improving dental materials properties	2010	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	72	4		25	36
56	Raicopol, M.D., Lehăduș, R., Ott, C., Stan, R., Roșca, S.I.	Solid-phase supported chiral tricarbonyl-chromium complexes	2010	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	72	3		11	20
57	Sulca, N.M., Lungu, A., Zaharia, C., Stan, R., Iovu, H.	Determination of the monomer reactivity ratios in copolymerization of two distinct dimethacrylates for dental use	2010	Materiale Plastice	47	2		254	258

58	Roșca, S.I., Stan, R., Ott, C., Părlea, E.	Condensation reactions of planar chiral tricarbonyl-chromium-complexed benzylic alcohols and acetates with reactive arenes	2010	Revue Roumaine de Chimie	55	6		327	333	
59	Rosca, S.I., Ott, C., Stan, R., Raicopol, M., Chiper, M.	Renewable chiral auxiliary for enantioselective synthesis of α -aminoacids	2010	Revista de Chimie	61	8		750	754	
60	Rosca, S.I., Stan, R., Bratu, C., Deleanu, C.	New carbon-carbon bonds formation mediated by chromium hexacarbonyl	2010	Revista de Chimie	61	10		940	945	
61	Stan, R., Ott, C., Sulca, N., Lungu, A., Iovu, H.	Functionalized D-sorbitol-based organogelators for dental materials (I)	2009	Materiale Plastice	46	3		230	235	
62	Stan, R., Ott, C., Rosca, S., Badanoiu, A., Stoleriu, S., Voicu, G.	Syntheses of nanostructured silica mediated by organogelators derived from D-sorbitol	2008	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	70	3		3	10	
63	Roșca, S.I., Stan, R., Ungureanu, E.-M., Stanciu, G., Roșca, S.	^{13}C -and D-labelled 3-phenylpropionic acids; synthesis and characterization by NMR and MS spectra	2008	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	70	4		77	84	
64	Stan, R., Chira, N., Ott, C., Todasca, C., Perez, E.	Catanionic organogelators derived from D-sorbitol and natural fatty acids	2008	Revista de Chimie	59	3		273	276	10.37358/rc.08.3.1747

65	Vasile, B.S., Ghitulica, C., Popescu-Pogrion, N., Constantinescu, S., Mercioniu, I., Stan, R., Andronesu, E.	Structural investigations on yttria - Doped zirconia nanopowders obtained by sol-gel method	2007	Journal of Optoelectronics and Advanced Materials	9	12		3774	3780	
66	Stan, R., Roșca, S., Ott, C., Roșca, S., Perez, E., Rico-Lattes, I., Lattes, A.	D-sorbitol based organogelators with nitrogen groups	2006	Revue Roumaine de Chimie	51	8-Jul		609	613	
67	Roșca, S., Stanciu, G., Stan, R., Ungureanu, M., Roșca, S.I., Mataka, S.	The rearrangement of electrochemically generated 2-phenylethyl free radical	2006	Revista de Chimie	57	3		276	280	
68	Banu, A., Stan, R., Matondo, H., Perez, É., Rico-Lattes, I., Lattes, A.	fluorinated-hydrogenated alkenes by RuCl ₃ -bipyridine-NaIO ₄ system. Role of the nitrogen ligand [Époxydation des alcènes mixtes fluorés-hydrogénés par le système RuCl ₃ -bipyridine-NaIO ₄ . Rôle du ligand azoté]	2005	Comptes Rendus Chimie	8	5		853	857	10.1016/j.crci.2005.02.002
69	Stan, R., Ciuculescu, E.-D., Franceschi-Messant, S., Perez, E., Rico-Lattes, I.	New sugar based gelators for organic liquids	2005	Revue Roumaine de Chimie	50	8-Jul		695	698	

70	Pasc-Banu, A., Stan, R., Blanzat, M., Perez, E., Rico-Lattes, I., Lattes, A., Labrot, T., Oda, R.	Microstructures in aqueous solutions of hybrid fluorocarbon/hydrocarbon cationic surfactants	2004	Colloids and Surfaces A: Physicochemical and Engineering Aspects	242	3-Jan		195	201	10.1016/j.colsurfa.2004.05.003
71	Stan, R., Ott, C., Roșca, S., Roșca, S.I.	A new route to optically pure tricarbonyl-chromium complexed ortho-substituted acetophenones	2004	Revista de Chimie	55	9		686	689	
72	Roșca, S., Stan, R., Roșca, S.I.	Electrophilic aromatic substitution via tricarbonyl-chromium complexed carbenium ions	2002	Revue Roumaine de Chimie	47	4-Mar		409	418	
73	Stan, R., Roșca, S., Roșca, S.I., Bartha, E.	complexation of aromatic prochiral compounds. V. The synthesis of the optically pure 1-(2,5-dimethylphenyl)ethylamine-tricarbonyl-chromium complex [Complexarea stereoselectivă a compușilor aromatici prochirali. V. Sinteza complexului 1-[2,5-dimetilfenil]etilamina-tricarbonil- crom optic pur]	2002	Revista de Chimie	53	5		324	331	

74	Stan, R., Roșca, S., Roșca, S.I., Căproiu, M.T.	The stereoselective complexation aromatic proquiral compounds. VI The complexation of some optically active functional derivatives of the aromatic carbonyl compounds [Complexarea stereoselectivă a compușilor aromatici prochirali. VI Complexarea unor derivați funcționali optici activi ai compușilor carbonilici aromatici]	2002	Revista de Chimie	53	7	497	503
75	Stan, R., Stanciu, G., Militaru, A., Ungureanu, E.-M., Mihăescu, D., Roșca, S.I.	On the anodic oxidation of carboxylic esters	2002	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	64	2	11	20
76	Deleanu, C., Ott, C., Roșca, S., Stan, R., Roșca, S.I.	Syntheses and NMR spectra of arene-dicarbonyl-triphenylphosphine-chromium-complexes	2002	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	64	1	3	9

77	Roșca, S.I., Stan, R., Roșca, S., Deleanu, C.	Complexarea stereoselectivă a compus + (Combining comma below)ilor aromatici prochirali III. O nouă metodă de sinteză pentru complex + (Combining comma below) cromtricarbonil optic puri Al 1-fenilalchenelor orto-substituite	2001	Revista de Chimie	52	4		171	176
78	Rosca, S., Stan, R., Pârlea, E., Rosca, S.I., Grandclaudon, P.	Intramolecular condensation reactions via tricarbonyl-chromium complexed benzylic carbanions	2001	Revue Roumaine de Chimie	46	4		427	432
79	Roșca, S., Stan, R., Roșca, S.I.	Stereoselective complexation of prochiral arenes. IV: Tricarbonyl-chromium-complexes of benzocyclobutene derivatives	2001	UPB Scientific Bulletin, Series B: Chemistry and Materials Science	63	4		3	8
80	Roșca, S., Ungureanu, M., Stan, R.	Anodic oxidation of 3-phenylpropionic acid	1996	Revue Roumaine de Chimie	41	2-Jan		91	101