

**UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI**  
**FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI "CRISTOFOR SIMIONESCU"**  
**DEPARTAMENTUL DE INGINERIA ȘI MANAGEMENTUL MEDIULUI**

Concurs pentru ocuparea postului de **PROFESOR UNIVERSITAR**, poz. 5

Disciplinele postului: Știința și ingineria materialelor

Cataliză în protecția mediului

**FIȘA DE VERIFICARE**  
**a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de**  
**profesor universitar**

publicat în Monitorul Oficial al României nr. 395 din data de 28.11.2024

Candidat: CATRINESCU Cezar-Florin / Data nașterii: 18.10.1969 Funcția actuală: Conferențiar universitar, Data numirii în funcția actuală: 2009 Instituția:  
Universitatea Tehnică "Gheorghe Asachi" din Iași

Se definesc:

**NT** = număr total de articole în reviste ISI;

**FIC** = factorul de impact cumulat (suma factorilor de impact ai revistelor la momentul susținerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei funcții didactice);

**NP** = număr articole în reviste ISI la care candidatul este autor principal (prim-autor și autor de corespondență);

**NC** = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitățile.

Standardele minime cumulative pentru postul de profesor/CSI:

Categorie	NT	NP	FIC	NC
Standarde minime cumulative	≥ 25	≥ 10	≥ 20	≥ 100
Realizat Cezar Catrinescu	41	13	100,05	≥1488

**Toate criteriile prezăvute în standardele minime CNATDCU sunt îndeplinite.**

**Data:** 16.12.2024

**Candidat CATRINESCU Cezar-Florin**

**Detalierea indicatorilor prevăzuți în standardele naționale minimale  
(CNATDCU), conform Ordin MEN nr.6129/20.12.2016**

Candidat: **Conf. dr. habil. ing. CATRINESCU CEZAR FLORIN**

**Domeniul științific: Ingineria Mediului – Comisia 18 (Ordin MEN nr.6129/20.12.2016)**

**1. Criteriul NT = 42 (≥ 25 valoare prevăzută în standardele minimale)**

Nr. Crt.	Articol
1	Ciotonea C., Wei Y., Ungureanu A., <b>Catrinescu C.</b> , Gardol O., Mamede A.-S., Dumeignil F., Paul S., Jalowiecki-Duhamel L., Royer S. (2023). Ni(0) Ex-Phyllosilicates as Efficient and Stable Low Temperature CH <sub>4</sub> Dry Reforming Catalyst, ChemCatChem, 15 (14), e202300245 IF=4.5 Q2
2	Teles, C. A., Ciotonea, C., Gomes, N., Gonçalves, V. O. O., Ungureanu, A., <b>Catrinescu, C.</b> , Richard, F. (2022). Hydrodeoxygenation of m-cresol over Pd/Al-SBA-15 catalysts: Effect of al content on the deoxygenation reaction pathways. Applied Catalysis A: General, 641, art. no. 118686 IF=5.5 Q2
3	Ciotonea, C., Chirieac, A., Dragoi B., <b>Catrinescu C.</b> , E., Royer, Ungureanu, A. (2022). Cu–Ga <sub>2</sub> O <sub>3</sub> nanoparticles supported on ordered mesoporous silica for the catalytic hydrogenation of cinnamaldehyde, Comptes Rendus Chimie, 25 (S3), 1-14
4	Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., <b>Catrinescu, C.</b> , Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using activated carbon modified with N-doped TiO <sub>2</sub> , (2020) Process Safety and Environmental Protection, 138, pp. 324-336. IF=7.8 Q1
5	Ungureanu, A., Chirieac, A., Ciotonea, C., Mazilu, I., <b>Catrinescu, C.</b> , Petit, S., Marceau, E., Royer, S., Dumitriu, E., Enhancement of the dispersion and catalytic performances of copper in the hydrogenation of cinnamaldehyde by incorporation of aluminium into mesoporous SBA-15 silica, (2020) Applied Catalysis A: General, 598, art. no. 117615
6	Dechézelles, J.-F., Ciotonea, C., <b>Catrinescu, C.</b> , Ungureanu, A., Royer, S., Nardello-Rataj, V., Emulsions Stabilized with Alumina-Functionalized Mesoporous Silica Particles, (2020) Langmuir, 36 (12), pp. 3212-3220 IF=3.9 Q2
7	Chen, S., Ciotonea, C., Ungureanu, A., Dumitriu, E., <b>Catrinescu, C.</b> , Wojcieszak, R., Dumeignil, F., Royer, S. Preparation of nickel (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds using melt infiltration (2019), Catalysis Today, 334, 48-58 IF=5.3 Q1
8	Teodorescu-Soare, C.T., <b>Catrinescu, C.</b> , Dobromir, M., Stoian, G., Arvinte, A., Luca, D., Growth and characterization of TiO <sub>2</sub> nanotube arrays under dynamic anodization. Photocatalytic activity (2018) Journal of Electroanalytical Chemistry, 823, pp. 388-396 IF=4.5 Q1
9	Apopei, P., <b>Catrinescu, C*</b> , Teodosiu, C., Ungureanu, A., Royer, S., Selective dissolution of TiO <sub>2</sub> crystalline phases: Physicochemical characterization and photocatalytic activity(2018) Comptes Rendus Chimie, 21 (3-4), pp. 382-390.
10	Ciotonea, C., B. Dragoi, A. Ungureanu, C. <b>Catrinescu,</b> S. Petit, H. Alamdari, E. Marceau, E. Dumitriu and S. Royer, Improved dispersion of transition metals in mesoporous materials through a polymer assisted melt infiltration method, (2017) Catalysis Science and Technology, 7 (22), pp. 5448-5456 Q1IF=5 Q2
11	Ciotonea, C., Mazilu, I., Dragoi, B., <b>Catrinescu, C.</b> , Dumitriu, E., Ungureanu, A., Alamdari, H., Petit, S., Royer, S. Confining for stability: Heterogeneous catalysis with transition metal (oxide) nanoparticles confined in the secondary

	pore network of mesoporous scaffolds(2017) ChemNanoMat, 3 (4), pp. 214-222. IF=3.8 Q2
12	<b>Catrinescu, C., C., Chelba, A., Teodosiu, C., Apopei, P.,</b> Removal of diclofenac from secondary wastewater effluents by Fenton based processes (2017) Environmental Engineering and Management Journal, 16 (4), pp. 765-777.
13	Mazilu, I., Ciotonea, C., Chiriac, A., Dragoi, B., <b>Catrinescu, C.,</b> Ungureanu, A., Petit, S., Royer, S., Dumitriu, E., Synthesis of highly dispersed iron species within mesoporous (Al)-SBA-15 silica as efficient heterogeneous Fenton-type catalysts (2017) Microporous and Mesoporous Materials, 241, pp. 326-337 IF=5.2 Q1
14	M.M.L. Ribeiro Carrott, I.P.P. Cansado, P.J.M. Carrott, P.A. Russo, P. Castilho, C. Fernandes, <b>C. Catrinescu,</b> C. Breen, Porosity in ion-exchanged and acid activated clays evaluated using n-nonane pre- Adsorption, Micropor. Mesopor. Mat. (2016), 238-247 IF=5.2 Q1
15	<b>C. Catrinescu,</b> C. Fernandes, P. Castilho and C. Breen, Selective methoxylation of a-pinene to a-terpinyl methyl ether over Al <sup>3+</sup> ion-exchanged clays, Appl. Catal. A: General, 489 (2015) 171-179
16	Apopei, P., <b>Catrinescu*, C.,</b> Teodosiu C., Royer, S., Mixed-phase TiO <sub>2</sub> photocatalysts: crystalline phase isolation and reconstruction, characterization and photocatalytic activity in the oxidation of 4-chlorophenol from aqueous effluents, Appl. Catal. B: Environmental, 160-161(1), 374-382, 2014
17	<b>Catrinescu, C.,</b> Fernandes, C., P. Castilho, P.A. Russo, M.R. Carrott and C. Breen, Selective methoxylation of limonene over ion-exchanged and acid activated clays, Appl. Catal. A: General, 467 (2013) 38-46
18	<b>Catrinescu, C.,</b> Arsene, Apopei, P., D. Teodosiu, C., Degradation of 4-chlorophenol from wastewater through heterogeneous Fenton and photo-Fenton process, catalyzed by Al-Fe PILC, Appl. Clay Sci., 58, 96-101 (2012)
19	Arsene, D., Musteret, C.P., <b>Catrinescu, C.,</b> Apopei, P., Barjoveanu, G., Teodosiu, C. Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management Journal, 10 (12) , 1967-1976
20	<b>Catrinescu, C.,</b> Arsene, D. Teodosiu, C., Catalytic Wet Hydrogen Peroxide Oxidation of para-Chlorophenol over Al/Fe Pillared Clays (AlFePILCs) Prepared from Different Host Clays, Appl. Catal. B: Environmental, 101, 451-460, 2011
21	Buburuzan, A.M., Macoveanu, M., Cojocaru, C., <b>Catrinescu, C.,</b> Experimental design to optimise the removal efficiency of o-xylene from gaseous flux by adsorption, Journal of Environmental Protection and Ecology 11 (2), 623-634, 2010
22	Buburuzan, A.M., <b>Catrinescu, C.,</b> Macoveanu, M., Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon, Environmental Engineering and Management Journal 9 (1), 125-132, 2010
23	Arsene, D., <b>Catrinescu, C*,</b> Drăgoi, B., Teodosiu, C., Catalytic wet hydrogen peroxide oxidation of 4-chlorophenol over iron-exchanged clays, Environmental Engineering and Management Journal 9 (1), 7-16, 2010
24	Apetrei, R., <b>Catrinescu, C.,</b> D. Mardare, C.M. Teodorescu, D. Luca, Photodegradation activity of sputter-deposited nitrogen-doped titania thin films, Thin Solid Films, 518 (4), 1040-1043, 2009
25	Apreutesei, R. E. , <b>Catrinescu, C.,</b> Teodosiu,C., Studies regarding phenol and 4-chlorophenol sorption by surfactant modified zeolites, Environmental Engineering and Management Journal, 8 (4), 651–656, 2009
26	Apreutesei, R. E. , <b>Catrinescu, C.,</b> Ungureanu, A. Teodosiu,C., Removal of 4-chlorophenol by surfactant modified zeolites and surfactant modified alkali-treated natural zeolites, Environmental Engineering and Management Journal, 8 (5), 1053 – 1060, 2009
27	Neamtu, M., Ciumasu, I.M., Costica, N., Costica, M., Bobu, M., Nicoara, M., <b>Catrinescu, C.,</b> Becker van Slooten, K., de Alencastro, L.F., Chemical,

	biological, ecotoxicological assesment of pesticides and persistent organic pollutants in the bahlui river, Romania, Env. Sci. Pollut. Res.,16 Suppl 1, S76-85, 2009
28	Buburuzan Haleta, A.M., <b>Catrinescu, C.</b> , Macoveanu, M., Adsorption of n-hexane vapors onto non-functionalized hypercrosslinked polymers (Hypersol Macronet) and activated carbon: equilibrium studies, Environmenatal Engineering and Management Journal, 8 (1), 173-181, 2009
29	Buburuzan Haleta, A.M., <b>Catrinescu, C.</b> , Macoveanu, M., Adsorption of n-hexane vapors onto non-functionalised hypercrosslinked polymers (Hypersol-Macronet <sup>TM</sup> ) and activated carbon: Thermodynamic and kinetic studies, Environmenatal Engineering and Management Journal, 8 (2), 259-265, 2009
30	Ungureanu,A., Dragoi, B., Chirieac,A., <b>Catrinescu, C.</b> , Dumitriu,E., Synthesis of highly ordered titanium-containing SBA-15 mesoporous silicas for catalytic eco-friendly oxidations, Environmental Engineering and Management Journal, 7 (3), 255-262, 2008
31	Apreutesei, R. E. , <b>Catrinescu, C.*</b> , Teodosiu, C., Surfactant-modified natural zeolites for environmental applications in water purification, Environmental Engineering and Management Journal, 7 (2), 149 – 161, 2008
32	Fernandes, C. <b>Catrinescu, P.</b> Castilho, P.A. Russo, M.R. Carrott and C. Breen, Catalytic conversion of limonene over acid activated Serra de Dentro (SD) bentonite, Appl. Catal. A: General, 318 (2007) 108-120
33	<b>Catrinescu, C.</b> and Teodosiu, C., Wet Hydrogen Peroxide Catalytic Oxidation of Parachlorophenol over Clay based Catalysts, Environmental Engineering and Management Journal, 6 (5), 405-412, 2007
34	<b>C. Catrinescu</b> , C. Fernandes, P. Castilho, C. Breen, Influence of exchange cations on the catalytic conversion of limonene over Serra de Dentro (SD) and SAz-1 clays. Correlations between acidity and catalytic activity/selectivity, Appl. Catal. A: General, 311 (2006) 172-184
35	<b>C. Catrinescu</b> , P. Fernandes, C. Castilho, M. Breen, M. Carrott, Porto Santo Clays as environmentally friendly catalysts for the conversion of renewable terpene feedstocks. Limonene aromatization to p-cymene, Environmental Engineering and Management Journal, 5 (3), pp. 275-284, 2006
36	M. Neamtu, <b>C. Catrinescu</b> , and A. Kettrup, Effect of dealumination of Iron (iii) - Exchanged commercial available zeolites for oxidation of reactive yellow 84 azo dye in the presence of hydrogen peroxide, Applied Catalysis B: Environmental 51 (2004) 149-157
37	M. Neamtu, C. Zaharia, <b>C. Catrinescu</b> , A. Yediler, M. Macoveanu and A. Kettrup, Fe-exchanged Y zeolite as catalyst for wet peroxide oxidation of reactive azo dye Procion Marine H-EXL, Applied Catalysis B: Environmental, 78(2), 2004, 287-294
38	<b>C. Catrinescu</b> , C. Teodosiu, M. Macoveanu, J. Miede-Brendle, R. Le Dred, Catalytic wet peroxide oxidation of phenol over Fe-exchanged pillared beidellite, (2003) Water Research 37 (5), 1154-1160
39	Azzouz , D. Messad, D. Nistor, <b>C. Catrinescu</b> , A. Zvolinschi and S. Asaftei, Vapor phase aldol condensation over fully ion-exchanged montmorillonite-rich catalysts, Applied Catalysis A: General, 241 (1-2), 2003, 1-13
40	Dumitriu, V. Hulea, Ioana Fechete, <b>C. Catrinescu</b> , C. Guimon, J.F. Lacaze and Aline Auroux, Prins condensation of isobutylene and formaldehyde over Fe-silicates of MFI structure, Appl. Catal. A, 181, 15-28 (1999)
41	E. Dumitriu, V. Hulea, C. Chelaru, <b>C. Catrinescu</b> , D. Tichit and R. Durand, Influence of the acid-base properties of solid catalysts on the condensation of formaldehyde and acetaldehyde, Appl. Catal. A: General 178(2),145-157 (1999)

## 2. Criteriul NP

NP=14 (≥ 10 - valoare prevăzută în standardele minimale)

Nr. Crt.	Articol
1	Apopei, P., <b>Catrinescu, C*</b> , Teodosiu, C., Ungureanu, A., Royer, S., Selective dissolution of TiO <sub>2</sub> crystalline phases: Physicochemical characterization and photocatalytic activity(2018) Comptes Rendus Chimie, 21 (3-4), pp. 382-390.
2	<b>Catrinescu, C.</b> , C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes (2017) Environmental Engineering and Management Journal, 16 (4), pp. 765-777.
3	<b>C. Catrinescu*</b> , C. Fernandes, P. Castilho and C. Breen, Selective methoxylation of α-pinene to α-terpinyl methyl ether over Al <sup>3+</sup> ion-exchanged clays, Appl. Catal. A: General, 489 (2015) 171-179
4	Apopei, P., <b>Catrinescu*</b> , C., Teodosiu C., Royer, S., Mixed-phase TiO <sub>2</sub> photocatalysts: crystalline phase isolation and reconstruction, characterization and photocatalytic activity in the oxidation of 4-chlorophenol from aqueous effluents, Appl. Catal. B: Environmental, 160-161(1), 374-382, 2014
5	<b>Catrinescu*</b> , C., Fernandes, C., P. Castilho, P.A. Russo, M.R. Carrott and C. Breen, Selective methoxylation of limonene over ion-exchanged and acid activated clays, Appl. Catal. A: General, 467 (2013) 38-46
6	<b>Catrinescu*</b> , C., Arsene, Apopei, P., D. Teodosiu, C., Degradation of 4-chlorophenol from wastewater through heterogeneous Fenton and photo-Fenton process, catalyzed by Al-Fe PILC, Appl. Clay Sci., 58, 96-101 (2012)
7	<b>Catrinescu*</b> , C., Arsene, D. Teodosiu, C., Catalytic Wet Hydrogen Peroxide Oxidation of para-Chlorophenol over Al/Fe Pillared Clays (AlFePILCs) Prepared from Different Host Clays, Appl. Catal. B: Environmental, 101, 451-460, 2011
8	Arsene, D., <b>Catrinescu, C*</b> , Drăgoi, B., Teodosiu, C., Catalytic wet hydrogen peroxide oxidation of 4-chlorophenol over iron-exchanged clays, Environmental Engineering and Management Journal 9 (1), 7-16, 2010
9	Apuretesei, R. E. , <b>Catrinescu, C*</b> , Teodosiu, C., Surfactant-modified natural zeolites for environmental applications in water purification, Environmental Engineering and Management Journal, 7 (2), 149 – 161, 2008
10	<b>Catrinescu, C.*</b> and Teodosiu, C., Wet Hydrogen Peroxide Catalytic Oxidation of Parachlorophenol over Clay based Catalysts, Environmental Engineering and Management Journal, 6 (5), 405-412, 2007
11	<b>C. Catrinescu*</b> , C. Fernandes, P. Castilho, C. Breen, Influence of exchange cations on the catalytic conversion of limonene over Serra de Dentro (SD) and SAZ-1 clays. Correlations between acidity and catalytic activity/selectivity, Appl. Catal. A: General, 311 (2006) 172-184
12	<b>C. Catrinescu*</b> , P. Fernandes, C. Castilho, M. Breen, M. Carrott, Porto Santo Clays as environmentally friendly catalysts for the conversion of renewable terpene feedstocks. Limonene aromatization to p-cymene, Environmental Engineering and Management Journal, 5 (3), pp. 275-284, 2006
13	<b>C. Catrinescu*</b> , C. Teodosiu, M. Macoveanu, J. Miehle-Brendle, R. Le Dred, Catalytic wet peroxide oxidation of phenol over Fe-exchanged pillared beidellite, (2003) Water Research 37 (5), 1154-1160
	<b>NP = 13</b>

## 3. Criteriul FIC = 100,5 (≥ 20 valoare prevăzută în standardele minimale)

Nr. Crt.	Articol	FI	FIC
1	Ciotonea C., Wei Y., Ungureanu A., Catrinescu C., Gardol O., Mamede A.-S., Dumeignil F., Paul S., Jalowiecki-Duhamel L., Royer S. (2023). Ni(0) Ex-Phyllosilicates as Efficient and Stable Low Temperature CH <sub>4</sub> Dry Reforming Catalyst, ChemCatChem, 15 (14), e202300245 IF=4.5 Q2	3,8	0,38
2	Teles, C. A., Ciotonea, C., Gomes, N., Gonçalves, V. O. O., Ungureanu, A., Catrinescu, C., Richard, F. (2022). Hydrodeoxygenation of m-cresol over Pd/Al-SBA-15 catalysts: Effect of al content on the deoxygenation reaction pathways. Applied Catalysis A: General, 641, art. no. 118686 IF=5.5 Q2	4,7	0,67
3	Ciotonea, C., Chirieac, A., Dragoi B., Catrinescu C., E., Royer, Ungureanu, A. (2022). Cu–Ga <sub>2</sub> O <sub>3</sub> nanoparticles supported on ordered mesoporous silica for the catalytic hydrogenation of cinnamaldehyde, Comptes Rendus Chimie, 25 (S3), 1-14	1,2	0,2
4	Apopei, P., Orha, C., Popescu, M.I., Lazau, C., Manea, F., <b>Catrinescu, C.</b> , Teodosiu, C., Diclofenac removal from water by photocatalysis- assisted filtration using activated carbon modified with N-doped TiO <sub>2</sub> , (2020) Process Safety and Environmental Protection, 138, pp. 324-336. IF=7.8 Q1	6,9	0,98
5	Ungureanu, A., Chirieac, A., Ciotonea, C., Mazilu, I., <b>Catrinescu, C.</b> , Petit, S., Marceau, E., Royer, S., Dumitriu, E., Enhancement of the dispersion and catalytic performances of copper in the hydrogenation of cinnamaldehyde by incorporation of aluminium into mesoporous SBA-15 silica, (2020) Applied Catalysis A: General, 598, art. no. 117615	4,7	0,52
6	Dechézelles, J.-F., Ciotonea, C., <b>Catrinescu, C.</b> , Ungureanu, A., Royer, S., Nardello-Rataj, V., Emulsions Stabilized with Alumina-Functionalized Mesoporous Silica Particles, (2020) Langmuir, 36 (12), pp. 3212-3220 IF=3.9 Q2	3,7	0,61
7	Chen, S., Ciotonea, C., Ungureanu, A., Dumitriu, E., <b>Catrinescu, C.</b> , Wojcieszak, R., Dumeignil, F., Royer, S. Preparation of nickel (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds using melt infiltration (2019), Catalysis Today, 334, 48-58 IF=5.3 Q1	5,2	0,65
8	Teodorescu-Soare, C.T., <b>Catrinescu, C.</b> , Dobromir, M., Stoian, G., Arvinte, A., Luca, D., Growth and characterization of TiO <sub>2</sub> nanotube arrays under dynamic anodization. Photocatalytic activity (2018) Journal of Electroanalytical Chemistry, 823, pp. 388-396 IF=4.5 Q1	4,1	0,68
9	Apopei, P., <b>Catrinescu, C.*</b> , Teodosiu, C., Ungureanu, A., Royer, S., Selective dissolution of TiO <sub>2</sub> crystalline phases: Physicochemical characterization and photocatalytic activity(2018) Comptes Rendus Chimie, 21 (3-4), pp. 382-390.	1,2	1,2
10	Ciotonea, C., B. Dragoi, A. Ungureanu, <b>C. Catrinescu</b> , S. Petit, H. Alamdari, E. Marceau, E. Dumitriu and S. Royer, Improved dispersion of transition metals in mesoporous materials through a polymer assisted melt infiltration method, (2017) Catalysis Science and Technology, 7 (22), pp. 5448-5456 Q1IF=5 Q2	4,4	0,48
11	Ciotonea, C., Mazilu, I., Dragoi, B., Catrinescu, C., Dumitriu, E., Ungureanu, A., Alamdari, H., Petit, S., Royer, S. Confining for stability: Heterogeneous catalysis with transition metal (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds(2017) ChemNanoMat, 3 (4), pp. 214-222. IF=3.8 Q2	2,6	0,28
12	<b>Catrinescu, C.</b> , C., Chelba, A., Teodosiu, C., Apopei, P., Removal of diclofenac from secondary wastewater effluents by Fenton based processes (2017) Environmental Engineering and Management Journal, 16 (4), pp. 765-777.	0,9	0,9
13	Mazilu, I., Ciotonea, C., Chirieac, A., Dragoi, B., Catrinescu, C., Ungureanu, A., Petit, S., Royer, S., Dumitriu, E., Synthesis of highly dispersed iron species within mesoporous (Al)-SBA-15 silica as efficient heterogeneous Fenton-type catalysts (2017) Microporous and Mesoporous Materials, 241, pp. 326-337 IF=5.2 Q1	5,2	0,58
14	M.M.L. Ribeiro Carrott, I.P.P. Cansado, P.J.M. Carrott, P.A. Russo, P. Castilho, C. Fernandes, <b>C. Catrinescu</b> , C. Breen, Porosity in ion-exchanged and acid	4,8	0,69

	activated clays evaluated using n-nonane pre- Adsorption, Micropor. Mesopor. Mat. (2016), 238-247 IF=5.2 Q1		
15	<b>C. Catrinescu</b> , C. Fernandes, P. Castilho and C. Breen, Selective methoxylation of $\alpha$ -pinene to $\alpha$ -terpinyl methyl ether over $Al^{3+}$ ion-exchanged clays, Appl. Catal. A: General, 489 (2015) 171-179	4,7	4,7
16	Apopei, P., <b>Catrinescu*</b> , C., Teodosiu C., Royer, S., Mixed-phase $TiO_2$ photocatalysts: crystalline phase isolation and reconstruction, characterization and photocatalytic activity in the oxidation of 4-chlorophenol from aqueous effluents, Appl. Catal. B: Environmental, 160-161(1), 374-382, 2014	20,2	20,2
17	<b>Catrinescu</b> , C., Fernandes, C., P. Castilho, P.A. Russo, M.R. Carrott and C. Breen, Selective methoxylation of limonene over ion-exchanged and acid activated clays, Appl. Catal. A: General, 467 (2013) 38-46	4,7	4,7
18	<b>Catrinescu</b> , C., Arsene, Apopei, P., D. Teodosiu, C., Degradation of 4-chlorophenol from wastewater through heterogeneous Fenton and photo-Fenton process, catalyzed by Al-Fe PILC, Appl. Clay Sci., 58, 96-101 (2012)	5,3	5,3
19	Arsene, D., Musteret, C.P., <b>Catrinescu</b> , C., Apopei, P., Barjoveanu, G., Teodosiu, C. Combined oxidation and ultrafiltration processes for the removal of priority organic pollutants from wastewaters, Environmental Engineering and Management Journal, 10 (12) , 1967-1976	0,9	0,15
20	<b>Catrinescu</b> , C., Arsene, D. Teodosiu, C., Catalytic Wet Hydrogen Peroxide Oxidation of para-Chlorophenol over Al/Fe Pillared Clays (AlFePILCs) Prepared from Different Host Clays, Appl. Catal. B: Environmental, 101, 451-460, 2011	20,2	20,2
21	Buburuzan, A.M., Macoveanu, M., Cojocaru, C., <b>Catrinescu</b> , C., Experimental design to optimise the removal efficiency of o-xylene from gaseous flux by adsorption, Journal of Environmental Protection and Ecology 11 (2), 623-634, 2010	0,5	0,17
22	Buburuzan, A.M., <b>Catrinescu</b> , C., Macoveanu, M., Comparative study of the adsorption-desorption cycles of hexane over hypercrosslinked polymeric adsorbents and activated carbon, Environmental Engineering and Management Journal 9 (1), 125-132, 2010	0,9	0,3
23	Arsene, D., <b>Catrinescu</b> , C*, Drăgoi, B., Teodosiu, C., Catalytic wet hydrogen peroxide oxidation of 4-chlorophenol over iron-exchanged clays, Environmental Engineering and Management Journal 9 (1), 7-16, 2010	0,9	0,9
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**FIC = 100,5**

#### **4. Criteriul NC = 1488 (≥valoare prevăzută în standardele minimale)**

**NC = 1488** ( la data de 03.12.2024)

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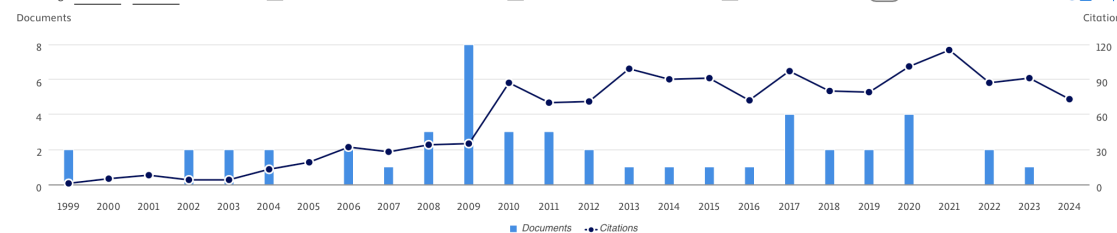
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03.12.2024

Conf. dr. habil. ing. Cezar Catrinescu

