UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAŞI
FACULTATEA DE INGINERIE CHIMICA SI PROTECTIA MEDIULUI "CRISTOFOR SIMIONESCU"
DEPARTAMENTUL DE INGINERIA SI MANAGEMENTUL MEDIULUI
DOMENIUL INGINERIA MEDIULUI

FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale naţionale pentru abilitare

Conf. Dr. ing. Gabriela Soreanu / Data naşterii: 14.02.1972

Funcţia actuală: Conferentiar dr. ing., Data numirii în funcţia actuală: 22.02.2021

Ingineria mediului

Standarde nationale abilitare	Realizari
NT ≥ **25**	NT = **35**
NP ≥ **10**, cu minim **sase lucrari** publicate in reviste cu **factor de impact** > **1** in calitate de **autor principal**	NP = **18**, cu **13** lucrari publicate in reviste cu **FI** > **1** in calitate de **principal autor**
FIC ≥ **20**	FIC = **100.729**
NC ≥ **100**, fara autocitari	NC = **1282**, fara autocitari

Conform anexa ordin 6.129_2016/20.12.2016

Ingineria mediului:

Se definesc:

- NT = număr total de articole în reviste ISI
- FIC = factor 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 poziții didactice)

- NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)
- NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările

1. Concurs de Conferențiar/CS II

Standarde minimale (cumulative):

a) NT ≥ 15

b) NP ≥ 6, cu mimin patru lucrări publicate în reviste cu factor de impact > 1

c) FIC≥ 12

În acest caz în calculul FIC se ține cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol la care nu este autor principal.

d) NC ≥ 60

Brevetele naționale (FI = 1) și internaționale (FI = 3) intră în calculul FIC de la punctul c)

2. Concurs de Profesor/CSI

Standarde minimale (cumulative):

a) NT ≥ 25

b) NP ≥ 10, cu minim șase lucrări în reviste cu FI > 1

c) FIC≥ 20

În acest caz în calculul FIC se ține cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol la care nu este autor principal.

d) NC ≥ 100

Brevetele naționale (FI = 1) și internaționale (FI = 3) intră în calculul FIC de la punctul c)

Indeplinirea standardelor nationale (NT, FIC, NP)

	Autor principal	FI (la momentul inscrierii)	Nr. autori	FI (autor principal) *sau* FI / nr. autori (altele decat autor principal)
Articol publicat în revistă cotată ISI				
Ri1. Soreanu G.*, Tanase C., Mardari C., Cretescu I. *Assessment of air purification biosystems for environmental applications.* ***Process Safety and Environmental Protection*** 195, 106742, 2025 **IF=6.9** **(zona rosie – aut princip)**	DA	6.9	4	6.9
Ri2. Lisa G., Cretescu I., Enache A.C., Tanase C., Samoila P., Mardari C., **Soreanu G.***. *Effects of biofiltration on the physical-chemical-biological profile of the aerial plants used for toluene removal from waste air, revealing new opportunities for circular economy.* ***Renewable and Sustainable Energy Reviews*** 207, 114890, 2025 **IF=16.3** **(zona rosie – aut princip (coresp))**	DA (corespondent)	16.3	7	16.3
Ri3. Postolache L.V., **Soreanu G.**, Cretescu I., Lisa G. *Analysis of the thermal behaviour of various wastes co-processed in cement plants.* ***Environmental Engineering and Management Journal*** 24(1), 211-221, 2025. **IF=0.9**		0.9	4	0.9/4=0.225
Ri4. Nouj N., Majbar Z., Abelouah M.R., Hamou A.B., Chaoui A., Hafid N., Benafqir M., El Alem N., Jada A., Ouachtak H., Addi A.A., Buciscanu I.I., Maier V., **Soreanu G.**, Cretescu I. *Eco-friendly wastewater treatment using a crab shell-based liquid bio-coagulant: Multi-criteria decision analysis related to different pollutants separation.* ***Journal of Environmental Chemical Engineering*** 12, 112318, 2024. **IF=7.4**		7.4	15	7.4/15=0.493
Ri5. Soreanu G.*, Tanase C., Mardari C., Gorgan D.L., Cretescu I. *Physiological Investigations of the Plants Involved in Air Biofiltration: Study Case.* ***Sustainability*** 16, 1529, 2024. **IF=3.3**	DA	3.3	5	3.3
Ri6. Diaconu M., **Soreanu G.***, Balan C.D., Buciscanu I.I., Maier V., Cretescu I. *Study of Spirulina platensis (Arthrospira) Development under the Heavy Metals Influence, as a Potential Promoter of Wastewater Remediation,* ***Water*** 15, 3962: 1-18, 2023. **IF=3**	DA (corespondent)	3	6	3

Ri7. G. Lisa, I. Anghel, D.M. Preda, C. Lisa, I. Cretescu, I.I. Buciscanu, M. Diaconu, **G. Soreanu***, *Moving towards valorization of biowastes issued from biotrickling filtration of contaminated gaseous streams: A thermochemical analysis-based perspective.* ***Sustainability*** 14(17), 10737: 1-11, 2022. **IF=3.3**	**DA (corespondent)**	**3.3**	8	3.3
Ri8. N. Nouj, N. Hafid, N. El Alem, I.I. Buciscanu, S.S. Maier, P. Samoila, **G. Soreanu**, I. Cretescu, C.D. Stan. *Valorization of β-Chitin Extraction Byproduct from Cuttlefish Bone and Its Application in Food Wastewater Treatment.* ***Materials*** 15(8), 2803: 1-27, 2022 **IF=3.1**		3.1	9	3.1/9=0.344
Ri9. Diaconu M., Volf I., Cretescu I., Juzsakova T., **Soreanu G.***. *Carbon biocapture in the frame of climate change and air quality issues: a preliminary microbiota screening.* ***Environmental Engineering and Management Journal*** 21(2): 333-341, 2022 **IF=0.9**	**DA (corespondent)**	**0.9**	5	0.9
Ri10. Parascanu M.M., Kaltschmitt M., Rödl A., **Soreanu G.**, Sánchez-Silva L. *Life cycle assessment of electricity generation from combustion and gasification of biomass in Mexico.* ***Sustainable Production and Consumption*** 27: 72–85, 2021 **IF=10.9**		10.9	5	10.9/5=2.18
Ri11.Dinca P., Butoi B., Lungu M., Porosnicu C., Jepu I., Staicu C., Lungu C.P., Niculescu A., Burducea I., Trusca O., Diaconu M., Cretescu I., **Soreanu G.** *Antibacterial efficiency of stainless-steel grids coated with Cu-Ag by thermionic vacuum arc method.* ***Coatings*** 10, 322, 2020 **IF=2.9**		2.9	13	2.9/13=0.223
Ri12.Diaconu M., Volf I., Cretescu I., **Soreanu G.*** *Study of different liquid media influence on Arthrospira platensis microalgae cultivation for environmental applications.* ***Environmental Engineering and Management Journal*** 19(2): 353-358, 2020 **IF=0.9**	**DA (corespondent)**	**0.9**	4	0.9
Ri13.Stan C.S., **Soreanu G.***, Popa M., Horlescu P., Lupascu T., Cretescu I. *A new approach to obtain aerogels for gas safety applications.* ***Environ. Eng. and Manag. J.*** 18(8): 1721-1726, 2019 **IF=0.9**	**DA (corespondent)**	**0.9**	6	0.9
Ri14. Ignat M., Samoila P., Cojocaru C., **Soreanu G.**, Cretescu I., Harabagiu V. *Porous polymer/inorganic composite matrices as efficient desiccants for air dehumidification.* ***Applied Surface Science*** 487: 1189-1197, 2019 **IF=6.3**		6.3	6	6.3/6=1.05
Ri15. Parascanu M.M., Puig-Gamero M., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Comparison of three Mexican biomasses valorization through combustion and gasification: Environmental and economic analysis.* ***Energy*** 189, 15 December 2019, 116095, 2019 **IF= 9**		9	5	9/5=1.8
Ri16. Parascanu M.M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Mexican biomasses valorization through pyrolysis process: Environmental and costs analysis.* ***Waste Management*** 95: 171-181, 2019 **IF=7.1**		7.1	5	7.1/5=1.42

Ri17. Parascanu M., Puig Gamero M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Life cycle assessment of olive pomace valorisation through pyrolysis.* ***Renewable Energy*** 122: 589-601, 2018 **IF=9**		9	6	9/6=1.5
Ri18. Parascanu M.M., Sánchez P., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production.* ***Journal of Cleaner Production*** 186: 771-781, 2018 **IF=9.7**		9.8	5	9.8/5=1.96
Ri19. **Soreanu G.**, Tomaszewicz M., Fernandez-Lopez M., Valverde J.L., Zuwata J., Sanchez-Silva L. *CO_2 gasification process performance for energetic valorization of microalgae.* ***Energy*** 119: 37-43, 2017 **IF= 9** **(zona rosie – aut princip)**	DA	9	6	9
Ri20. Parascanu M.M., Sandoval-Salas F., **Soreanu G.**, Valverde J.L., Sanchez-Silva L. *Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes.* ***Renewable and Sustainable Energy Reviews*** 71: 509-522, 2017 **IF=16.3**		16.3	5	16.3/5=3.26
Ri21. López-González D., Parascanu M.M., Fernandez-Lopez M., Puig-Gamero M., **Soreanu G.**, Avalos-Ramírez A., Valverde J.L., Sanchez-Silva L. *Effect of different concentrations of O_2 under inert and CO_2 atmospheres on the swine manure combustion process.* ***Fuel*** 195: 23-32, 2017 **IF=6.7**		6.7	8	6.7/8=0.837
Ri22. Cretescu I., Lupascu T., Buciscanu I., Balau-Mindru T., **Soreanu G.** *Low-cost sorbents for the removal of acid dyes from aqueous solutions.* ***Process Safety and Environmental Protection*** 108: 57-66, 2017 **IF=6.9**		6.9	5	6.9/5=1.38
Ri23. Raschitor A., **Soreanu G.**, Fernandez-Marchante C.M., Lobato J., Cañizares P., Cretescu I., Rodrigo M.A. *Bioelectro-Claus processes using MFC technology: Influence of co-substrate.* ***Bioresource Technology*** 189: 94-98, 2015 **IF=9.7**		9.7	7	9.7/7=1.385
Ri24. Cretescu I., **Soreanu G.**, Harja M. *A low-cost sorbent for removal of copper ions from wastewaters based on sawdust/fly ash mixture.* ***International Journal of Environmental Science and Technology*** 12(6): 1799-1810, 2015 **IF=3**		3	3	3/3=1
Ri25. Fernandez-Lopez M., Parascanu M.M., López-González D., **Soreanu G.***, Avalos-Ramírez A., Sanchez P., Valverde J.L., Sanchez-Silva L. *Catalytic and non-catalytic pyrolysis of biologically treated manure.* ***Environmental Engineering and Management Journal*** 14(2): 349-355, 2015 **IF=0.9**	DA (corespondent)	0.9	8	0.9

Ri26. Tucaliuc O.M., Cretescu I., Nemtoi Gh., Breaban I.G., **Soreanu G.**, Iancu O.G. *Monitoring of mercury from air and urban dust in the industrial area of Iasi municipality.* ***Environmental Engineering and Management Journal*** 13(8): 2051-2061, 2014 **IF=0.9**		0.9	6	0.9/6=0.15
Ri27. **Soreanu G.***, Darlington A., Dixon M. *Botanical biofiltration of indoor gaseous pollutants – A mini-review.* ***Chemical Engineering Journal*** 229: 585-594, 2013 ***(article is feature on the cover of the issue)*** **IF = 13.4** (zona rosie – aut princip)	DA	13.4	3	13.4
Ri28. Caraiman (Cojocaru) P., Pohontu C., **Soreanu G.**, Macoveanu M., Cretescu I. *Optimization process of cadmium and zinc removal from soil by phytoremediation using Brassica napus and Triticales sp.* ***Environmental Engineering and Management Journal*** 11(2): 271-278, 2012 **IF=0.9**		0.9	5	0.9/5=0.18
Ri29. **Soreanu G.**, Falletta P., Béland M., Edmonson K., Ventresca B., Seto P. *Empirical modelling and dual-performance optimisation of a hydrogen sulphide removal process for biogas treatment.* ***Bioresource Technology*** 101(23): 9387-9390, 2010 **IF=9.7** (zona rosie – aut princip)	DA	9.7	6	9.7
Ri30. **Soreanu G.**, Lishman L., Dunlop S., Behmann H., Seto P. *An assessment of oxygen transfer efficiency in a gas permeable hollow fibre membrane biological reactor.* ***Water Science and Technology*** 61(5): 1165–1171, 2010 **IF=2.5**	DA	2.5	5	2.5
Ri31. **Soreanu G.***, Falletta P., Béland M., Edmonson K., Seto P. *Abiotic and biotic mitigation of volatile methylsiloxanes in anaerobic gas-phase biomatrices.* ***Environmental Engineering and Management Journal*** 8(5): 1235-1240, 2009 **IF=0.9**	DA	0.9	5	0.9
Ri32. **Soreanu G.**, Béland M., Falletta P., Ventresca B., Seto P. *Evaluation of different packing media for anoxic H_2S control in biogas.* ***Environmental Technology*** 30 (12): 1249 – 1259, 2009 **IF=2.2**	DA	2.2	5	2.2
Ri33. **Soreanu G.***, Béland M., Falletta P., Edmonson K., Seto P. *Investigation on the use of nitrified wastewater for the steady-state operation of a biotrickling filter designed for the removal of hydrogen sulphide in biogas.* ***Journal of Environmental Engineering and Science*** 7(5): 543-552, 2008 **IF=1**	DA	1	5	1
Ri34. **Soreanu G.**, Falletta P., Béland M., Edmonson K., Seto P. *Study on the performance of an anoxic biotrickling filter for the removal of hydrogen sulphide from biogas.* ***Water Quality Research Journal Iformer Water Quality Research Journal of Canada*** 43(2/3): 211-218/93-102, 2008 **IF=2**	DA	2.4	5	2.4

Ri35. **Soreanu G.***, Béland M., Falletta P., Edmonson K., Seto P. *Laboratory pilot scale study for H2S removal from biogas in an anoxic biotrickling filter.* ***Water Science and Technology*** 57(2): 201-207, 2008 **IF=2.5**	DA	2.5	5	2.5
Total ISI NT = 35	NP = 18, din care 13 cu FI > 1	**190.8**		**FIC_{ISI} = 99.387**
Brevet de invenţie acordat în ţară				
B1. Ignat M., Samoila P., Bele A., Cojocaru C., Cretescu I., **Soreanu G.**, Harabagiu V. (2024). Procedeu de obtinere a silicei poroase cu aplicatii in dezumidificarea fluxurilor gazoase. Brevet RO, 134885 (A2), in baza Hotararii OSIM din 30.07.2024.		1	7	1/7=0.142
B2. Cretescu I., Arghirescu M., Gorecki G.P., **Soreanu G.**, Lazar L., Harja M. (2024). Izoleta de pat cu sistema de purificare a aerului. Brevet RO, nr. 134366 B1/30.09.2024		1	6	1/6=0.167
B3. Cretescu I., Dragoi E.N., **Soreanu G.** (2022). Sistem de monitorizare a calitatii apei de suprafata amplasat pe o nava de pasageri. Brevet RO, nr. 135089 B1/2022		1	3	1/3=0.333
B4.Cretescu I., Teodosiu C., Zaleschi L., **Soreanu G.**, Antonescu I. (2019). Reactor pentru epurarea electrochimica a apelor uzate industriale. Brevet RO, nr. 129934/2019		1	5	1/5=0.2
B5. Cretescu I., **Soreanu G.**, Petruc M., Macoveanu (2008). Instalatie si procedeu de schimb ionic in camp magnetic. Brevet RO, nr. 121985/2008		1	4	1/4=0.25
B6. Cretescu I., Suditu G., Macoveanu M., **Soreanu G.** (2004). Electroreactor destinat epurarii apelor uzate incarcate cu substante organice. Brevet RO, nr. 119283/2004		1	4	1/4=0.25
Total brevete				**$FIC_{brev.}$ = 1.342**
				FIC_{total} = 99.387 (ISI) + 1.342 (brev.) = 100.729

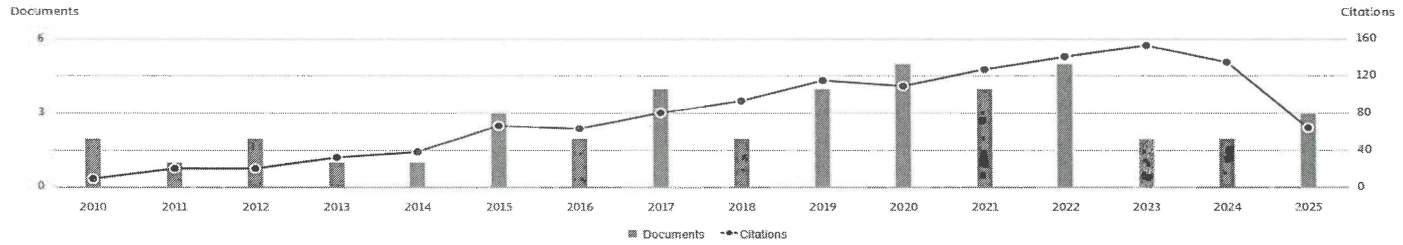
Numar total de citari din baza SCOPUS: NC=1282, fara autocitari

Citation overview

Soreanu, Gabriela

47	1,282	19
Documents	Citations	h-index

Date range: 2010 to 2025 | Exclude self citations of selected author | Exclude self citations of all authors | Exclude book citations | Hide documents with 0 citations | Export



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Total		**17**	**9**	**20**	**20**	**32**	**38**	**66**	**63**	**80**	**93**	**115**	**109**	**127**	**141**	**153**	**135**	**64**	**1,265**	**0**	**1,282**

23 mai 2025

Conf. dr. ing. Gabriela Soreanu