

**Fișa de îndeplinire a standardelor minimale stabilite de CNATDCU
conform Monitorul Oficial nr. 890 bis din 27 decembrie 2012**

Conf. Dr. Ing. Călin-Cristian Cormoș

I. Număr total de articole în reviste ISI (NT): NT ≥ 25

Scor realizat de candidat: NT = 48

1. C.C. Cormos, *Assessment of chemical absorption/adsorption for post-combustion CO₂ capture from Natural Gas Combined Cycle (NGCC) power plants*, Applied Thermal Engineering, 82, 2015, 120 - 128
2. A.M. Cormos, C. Dinca, C.C. Cormos, *Multi-fuel multi-product operation of IGCC power plants with carbon capture and storage (CCS)*, Applied Thermal Engineering, 2015, 74, 20 - 27
3. C.C. Cormos, *Economic evaluations of coal-based combustion and gasification power plants with post-combustion CO₂ capture using calcium looping cycle*, Energy, 2014, 78, 665 - 673
4. M. Muresan, C.C. Cormos, P.S. Agachi, *Biomass gasification-based hydrogen supply chain analysis under demand variability*, Studia UBB Chemia, LIX, 3, 2014, 29 - 42
5. L. Petrescu, C.C. Cormos, *Waste reduction (WAR) algorithm applied for environmental impact assessment of coal gasification with carbon capture and storage*, Journal of Cleaner Production, 2014, accepted, in press
6. S. Fogarasi, C.C. Cormos, *Technico-economic assessment of coal and sawdust co-firing power generation with CO₂ capture*, Journal of Cleaner Production, 2014, accepted, in press
7. B. Dorneanu, C.C. Cormos, *Techno-economic evaluation of Calcium Looping cycle for CO₂ capture from super-critical power plants*, Studia Universitatis Chemia, LIX, 4, 2014, 205 - 215
8. C.C. Cormos, *Economic implications of pre- and post-combustion calcium looping configurations applied to gasification power plants*, International Journal of Hydrogen Energy, 39, 2014, 10507-10516
9. C.C. Cormos, *Renewable hydrogen production concepts from bioethanol reforming with carbon capture*, International Journal of Hydrogen Energy, 39, 2014, 5597-5606
10. M. Muresan, C.C. Cormos, S. Agachi, *Comparative life cycle analysis for gasification-based hydrogen production systems*, Journal of Renewable and Sustainable Energy, 6, 2014, 013131

11. A.M. Cormos, C.C. Cormos, *Investigation of hydrogen and power co-generation based on direct coal chemical looping systems*, International Journal of Hydrogen Energy, 39, 2014, 2067-2077
12. C.C. Cormos, *Techno-economic and environmental evaluations of large scale gasification-based CCS project in Romania*, International Journal of Hydrogen Energy, 39, 2014, 13-27
13. C.C. Cormos, A.M. Cormos, L. Petrescu, *Assessment of chemical looping-based conceptual designs for high efficient hydrogen and power co-generation applied to gasification processes*, Chemical Engineering Research and Design, 92, 2014, 741-751
14. I.M. Bodea, C.C. Cormos, *Applications of chemical looping combustion to energy conversion processes*, Studia Chemia, 4, 2013, 7-22
15. C. Dinca, C.C. Cormos, H. Necula, *Environmental impact assessment of GHG emissions generated by coal life cycle and solutions for reducing CO₂*, Journal of Environmental Protection, 4, 2013, 5-15
16. F. Goga, R. Dudric, C.C. Cormos, F. Imre, L. Bizo, Radu Misca, *Fly ash from thermal power plant, raw material for glass-ceramic*, Environmental Engineering and Management Journal, 12 (2), 2013, 337-342
17. C.C. Cormos, *Assessment of flexible energy vectors poly-generation based on coal and biomass/solid wastes co-gasification with carbon capture*, International Journal of Hydrogen Energy, 38, 2013, 7855-7866
18. C.C. Cormos, C. Dinca, *Assessment of mass and energy integration aspects for IGCC power plants with carbon capture and storage (CCS)*, Studia Universitatis Chemia, LVIII, 1, 2013, 117-131
19. M. Muresan, C.C. Cormos, P.S. Agachi, *Techno-economical assessment of coal and biomass gasification-based hydrogen production supply chain system*, Chemical Engineering Research and Design, 91, 2013, 1527-1541
20. C.C. Cormos, K. Vatopoulos, E. Tzimas, *Assessment of the consumption of water and construction materials in state-of-the-art fossil fuel power generation technologies involving CO₂ capture*, Energy, 51, 2013, 37-49
21. C.C. Cormos, A.M. Cormos, *Assessment of calcium-based chemical looping options for gasification power plants*, International Journal of Hydrogen Energy, 38, 2013, 2306-2317
22. A. Padurean, C.C. Cormos, P.S. Agachi, *Techno-economic evaluation of pre- and post-combustion carbon dioxide capture methods applied for an IGCC plant for power generation*, Environmental Engineering and Management Journal, 12, 2013, 2191- 2202
23. I.M. Bodea, C.C. Cormos, *Evaluation of iron and nickel-based oxygen carriers for natural gas chemical looping combustion systems*, Studia Universitatis Chemia, LVII, 2, 2012, 47 - 57
24. C.C. Cormos, *Evaluation of syngas-based chemical looping applications for hydrogen and power co-generation with CCS*, International Journal of Hydrogen Energy, 37, 2012, 13371-13386

25. C.C. Cormos, *Integrated assessment of IGCC power generation technology with carbon capture and storage (CCS)*, Energy, 42, 2012, 434-445
26. C.C. Cormos, *Hydrogen and power co-generation based on coal and biomass/solid wastes co-gasification with carbon capture and storage*, International Journal of Hydrogen Energy, 37, 2012, 5637-5648
27. A. Padurean, C.C. Cormos, P.S. Agachi, *Pre-combustion carbon dioxide capture by gas-liquid absorption for Integrated Gasification Combined Cycle power plants*, International Journal of Greenhouse Gas Control, 7, 2012, 1-11
28. M. Badaluta, C.C. Cormos, P.S. Agachi, *Hydrogen Production through co-gasification of coal and biomass with carbon dioxide capture*, Studia Universitatis Chemia, LVII, 1, 2012, 167-174
29. F. Starr, C.C. Cormos, *Materials challenges and gasifier choices in IGCC processes for clean and efficient energy conversion*, Materials Research Innovations 15, 2011, 428-446
30. V. Goia, C.C. Cormos, P.S. Agachi, *Influence of temperature and heating rate on biomass pyrolysis in a fixed-bed reactor*, Studia Universitatis Babes-Bolyai, Chemia, LVI, 2, 2011, 49 – 56
31. C.C. Cormos, *Hydrogen production from fossil fuels with carbon capture and storage based on chemical looping systems*, International Journal of Hydrogen Energy, 36, 2011, 5960-5971
32. C.C. Cormos, *Evaluation of power generation schemes based on hydrogen-fuelled combined cycle with carbon capture and storage (CCS)*, International Journal of Hydrogen Energy, 36, 2011, 3726-3738
33. A. Padurean, C.C. Cormos, A.M. Cormos, P.S. Agachi, *Multicriterial analysis of post-combustion carbon dioxide capture using alkanolamines*, International Journal of Greenhouse Gas Control, 5, 2011, 676-685
34. C.C. Cormos, *Evaluation of energy integration aspects for IGCC-based hydrogen and electricity co-production with carbon capture and storage*, International Journal of Hydrogen Energy, 35, 2010, 7485-7497
35. A.M. Padurean, C.C. Cormos, A.M. Cormos, S. Agachi, *Technical assessment of CO₂ capture using alkanolamines solutions*, Studia Universitatis Babes-Bolyai, Chemia, LV, 1, 2010, 55 – 63
36. V. Maxim, C.C. Cormos, P.S. Agachi, *Mathematical modeling and simulation of coal co-gasification with waste/biomass in an entrained-flow gasifier*, Studia Universitatis Babes-Bolyai, Chemia, LV, 2, 2010, 51 – 62
37. C.C. Cormos, *Evaluation of iron based chemical looping for hydrogen and electricity co-production by gasification process with carbon capture and storage*, International Journal of Hydrogen Energy, 35, 2010, 2278 – 2289
38. C.C. Cormos, F. Starr, E. Tzimas, *Use of lower grade coals in IGCC plants with carbon capture for the co-production of hydrogen and electricity*, International Journal of Hydrogen Energy, 35, 2010, 556 – 567

39. C.C. Cormos, *Assessment of hydrogen and electricity co-production schemes based on gasification process with carbon capture and storage*, International Journal of Hydrogen Energy, 34, 2009, 6065 – 6077
40. C.C. Cormos, S. Agachi, *Gasification process – A practical way for solid fossil fuels decarbonisation*, Studia Universitatis Babeş-Bolyai, Chemia, LIV, 1, 2009, 81 – 91
41. C.C. Cormos, A.M. Cormos, S. Agachi, *Power generation from coal and biomass based on IGCC concept with pre and post-combustion carbon capture methods*, Asia – Pacific Journal of Chemical Engineering, 4, 2009, 870 – 877
42. C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, *Innovative concepts for hydrogen production processes based on coal gasification with CO₂ capture*, International Journal of Hydrogen Energy, 2008, Volume 33, Issue 4, 1286 – 1294
43. C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, *Compressor issues for hydrogen production and transmission through a long distance pipeline network*, Revista de Chimie, 59(4), 2008, 443 – 447
44. S. Bandyopadhyay, C.C. Cormos, *Water Management in Process Industries Incorporating Regeneration and Recycle through a Single Treatment Unit*, Industrial and Engineering Chemistry Research, 2008, 47(4), 1111 – 1119
45. E. Tzimas, A. Mercier, C.C. Cormos, S. Peteves, *Trade-off in emissions of acid gas pollutants and of carbon dioxide in fossil fuels power plants with carbon capture*, Energy Policy, 35, 2007, 3991 – 3998
46. C.C. Cormos, A.M. Cormos, S. Agachi, *Modelarea și simularea procesului de carbonatare a saramurii amoniacale din cadrul tehnologiei de obținere a sodei calcinate*, Revista de Chimie, 57(2), 2006, 130-137
47. C.C. Cormos, A.M. Cormos, S. Agachi, *Modelarea și simularea procesului de regenerare a amoniacului rezultat din tehnologia de obținere a sodei calcinate*, Revista de Chimie, 56(11), 2005, 1124-1130
48. C.C. Cormos, S. Agachi, *Modelarea și simularea extractiei pantolactonei folosind programul ChemCAD*, Revista de Chimie, 56(7), 2005, 750-756

II. Număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) (NP): NP ≥ 12

Scor realizat de candidat: NP = 32

1. C.C. Cormos, *Assessment of chemical absorption/adsorption for post-combustion CO₂ capture from Natural Gas Combined Cycle (NGCC) power plants*, Applied Thermal Engineering, 82, 2015, 120 - 128
2. A.M. Cormos, C. Dinca, C.C. Cormos, *Multi-fuel multi-product operation of IGCC power plants with carbon capture and storage (CCS)*, Applied Thermal Engineering, 2015, 74, 20 - 27

3. C.C. Cormos, *Economic evaluations of coal-based combustion and gasification power plants with post-combustion CO₂ capture using calcium looping cycle*, Energy, 2014, 78, 665 - 673
4. M. Muresan, C.C. Cormos, P.S. Agachi, *Biomass gasification-based hydrogen supply chain analysis under demand variability*, Studia UBB Chemia, LIX, 3, 2014, 29 - 42
5. B. Dorneanu, C.C. Cormos, *Techno-economic evaluation of Calcium Looping cycle for CO₂ capture from super-critical power plants*, Studia Universitatis Chemia, LIX, 4, 2014, 205 - 215
6. C.C. Cormos, *Economic implications of pre- and post-combustion calcium looping configurations applied to gasification power plants*, International Journal of Hydrogen Energy, 39, 2014, 10507-10516
7. C.C. Cormos, *Renewable hydrogen production concepts from bioethanol reforming with carbon capture*, International Journal of Hydrogen Energy, 39, 2014, 5597-5606
8. A.M. Cormos, C.C. Cormos, *Investigation of hydrogen and power co-generation based on direct coal chemical looping systems*, International Journal of Hydrogen Energy, 39, 2014, 2067-2077
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10. C.C. Cormos, A.M. Cormos, L. Petrescu, *Assessment of chemical looping-based conceptual designs for high efficient hydrogen and power co-generation applied to gasification processes*, Chemical Engineering Research and Design, 92, 2014, 741-751
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13. C.C. Cormos, C. Dinca, *Assessment of mass and energy integration aspects for IGCC power plants with carbon capture and storage (CCS)*, Studia Universitatis Chemia, LVIII, 1, 2013, 117-131
14. C.C. Cormos, K. Vatopoulos, E. Tzimas, *Assessment of the consumption of water and construction materials in state-of-the-art fossil fuel power generation technologies involving CO₂ capture*, Energy, 51, 2013, 37-49
15. C.C. Cormos, A.M. Cormos, *Assessment of calcium-based chemical looping options for gasification power plants*, International Journal of Hydrogen Energy, 38, 2013, 2306-2317
16. I.M. Bodea, C.C. Cormos, *Evaluation of iron and nickel-based oxygen carriers for natural gas chemical looping combustion systems*, Studia Universitatis Chemia, LVII, 2, 2012, 47 - 57

17. C.C. Cormos, *Evaluation of syngas-based chemical looping applications for hydrogen and power co-generation with CCS*, International Journal of Hydrogen Energy, 37, 2012, 13371-13386
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22. C.C. Cormos, *Evaluation of energy integration aspects for IGCC-based hydrogen and electricity co-production with carbon capture and storage*, International Journal of Hydrogen Energy, 35, 2010, 7485-7497
23. C.C. Cormos, *Evaluation of iron based chemical looping for hydrogen and electricity co-production by gasification process with carbon capture and storage*, International Journal of Hydrogen Energy, 35, 2010, 2278 – 2289
24. C.C. Cormos, F. Starr, E. Tzimas, *Use of lower grade coals in IGCC plants with carbon capture for the co-production of hydrogen and electricity*, International Journal of Hydrogen Energy, 35, 2010, 556 – 567
25. C.C. Cormos, *Assessment of hydrogen and electricity co-production schemes based on gasification process with carbon capture and storage*, International Journal of Hydrogen Energy, 34, 2009, 6065 – 6077
26. C.C. Cormos, S. Agachi, *Gasification process – A practical way for solid fossil fuels decarbonisation*, Studia Universitatis Babeş-Bolyai, Chemia, LIV, 1, 2009, 81 – 91
27. C.C. Cormos, A.M. Cormos, S. Agachi, *Power generation from coal and biomass based on IGCC concept with pre and post-combustion carbon capture methods*, Asia – Pacific Journal of Chemical Engineering, 4, 2009, 870 – 877
28. C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, *Innovative concepts for hydrogen production processes based on coal gasification with CO₂ capture*, International Journal of Hydrogen Energy, 2008, Volume 33, Issue 4, 1286 – 1294
29. C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, *Compressor issues for hydrogen production and transmission through a long distance pipeline network*, Revista de Chimie, 59(4), 2008, 443 – 447
30. C.C. Cormos, A.M. Cormos, S. Agachi, *Modelarea și simularea procesului de carbonatare a saramurii amoniacale din cadrul tehnologiei de obținere a sodei calcinate*, Revista de Chimie, 57(2), 2006, 130-137

31. C.C. Cormos, A.M. Cormos, S. Agachi, *Modelarea și simularea procesului de regenerare a amoniacului rezultat din tehnologia de obținere a sodei calcinate*, Revista de Chimie, 56(11), 2005, 1124-1130
32. C.C. Cormos, S. Agachi, *Modelarea și simularea extracției pantolactonei folosind programul ChemCAD*, Revista de Chimie, 56(7), 2005, 750-756

III. Factor de impact cumulat (FIC): FIC ≥ 16

Scor realizat de candidat: FIC = 78,691

Nr.	Articol	FI	FIC
1.	C.C. Cormos, <i>Economic evaluations of coal-based combustion and gasification power plants with post-combustion CO₂ capture using calcium looping cycle</i> , Energy, 2014, 78, 665 - 673	4,159	4,159
2.	C.C. Cormos, K. Vatopoulos, E. Tzimas, <i>Assessment of the consumption of water and construction materials in state-of-the-art fossil fuel power generation technologies involving CO₂ capture</i> , Energy, 51, 2013, 37-49	4,159	4,159
3.	C.C. Cormos, <i>Integrated assessment of IGCC power generation technology with carbon capture and storage (CCS)</i> , Energy, 42, 2012, 434-445	4,159	4,159
4.	A. Padurean, C.C. Cormos, P.S. Agachi, <i>Pre-combustion carbon dioxide capture by gas-liquid absorption for Integrated Gasification Combined Cycle power plants</i> , International Journal of Greenhouse Gas Control, 7, 2012, 1-11	3,821	1,273
5.	A. Padurean, C.C. Cormos, A.M. Cormos, P.S. Agachi, <i>Multicriterial analysis of post-combustion carbon dioxide capture using alkanolamines</i> , International Journal of Greenhouse Gas Control, 5, 2011, 676-685	3,821	0,955
6.	L. Petrescu, C.C. Cormos, <i>Waste reduction (WAR) algorithm applied for environmental impact assessment of coal gasification with carbon capture and storage</i> , Journal of Cleaner Production, 2014, accepted, in press	3,59	1,795
7.	S. Fogarasi, C.C. Cormos, <i>Technico-economic assessment of coal and sawdust co-firing power generation with CO₂ capture</i> , Journal of Cleaner Production, 2014, accepted, in press	3,59	1,795
8.	C.C. Cormos, <i>Economic implications of pre- and post-combustion calcium looping configurations applied to gasification power plants</i> , International Journal of Hydrogen Energy, 39, 2014, 10507-10516	2,93	2,93

9.	C.C. Cormos, <i>Renewable hydrogen production concepts from bioethanol reforming with carbon capture</i> , International Journal of Hydrogen Energy, 39, 2014, 5597-5606	2,93	2,93
10.	A.M. Cormos, C.C. Cormos, <i>Investigation of hydrogen and power co-generation based on direct coal chemical looping systems</i> , International Journal of Hydrogen Energy, 39, 2014, 2067-207	2,93	2,93
11.	C.C. Cormos, <i>Techno-economic and environmental evaluations of large scale gasification-based CCS project in Romania</i> , International Journal of Hydrogen Energy, 39, 2014, 13-27	2,93	2,93
12.	C.C. Cormos, <i>Assessment of flexible energy vectors poly-generation based on coal and biomass/solid wastes co-gasification with carbon capture</i> , International Journal of Hydrogen Energy, 38, 2013, 7855-7866	2,93	2,93
13.	C.C. Cormos, A.M. Cormos, <i>Assessment of calcium-based chemical looping options for gasification power plants</i> , International Journal of Hydrogen Energy, 38, 2013, 2306-2317	2,93	2,93
14.	C.C. Cormos, <i>Evaluation of syngas-based chemical looping applications for hydrogen and power co-generation with CCS</i> , International Journal of Hydrogen Energy, 37, 2012, 13371-13386	2,93	2,93
15.	C.C. Cormos, <i>Hydrogen and power co-generation based on coal and biomass/solid wastes co-gasification with carbon capture and storage</i> , International Journal of Hydrogen Energy, 37, 2012, 5637-5648	2,93	2,93
16.	C.C. Cormos, <i>Hydrogen production from fossil fuels with carbon capture and storage based on chemical looping systems</i> , International Journal of Hydrogen Energy, 36, 2011, 5960-5971	2,93	2,93
17.	C.C. Cormos, <i>Evaluation of power generation schemes based on hydrogen-fuelled combined cycle with carbon capture and storage (CCS)</i> , International Journal of Hydrogen Energy, 36, 2011, 3726-3738	2,93	2,93
18.	C.C. Cormos, <i>Evaluation of energy integration aspects for IGCC-based hydrogen and electricity co-production with carbon capture and storage</i> , International Journal of Hydrogen Energy, 35, 2010, 7485-7497	2,93	2,93
19.	C.C. Cormos, <i>Evaluation of iron based chemical looping for hydrogen and electricity co-production by gasification process with carbon capture and storage</i> , International Journal of Hydrogen Energy, 35, 2010, 2278 – 2289	2,93	2,93
20.	C.C. Cormos, F. Starr, E. Tzimas, <i>Use of lower grade coals in IGCC plants with carbon capture for the co-production of hydrogen and electricity</i> , International Journal of Hydrogen Energy, 35, 2010, 556 – 567	2,93	2,93

21.	C.C. Cormos, <i>Assessment of hydrogen and electricity co-production schemes based on gasification process with carbon capture and storage</i> , International Journal of Hydrogen Energy, 34, 2009, 6065 – 6077	2,93	2,93
22.	C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, <i>Innovative concepts for hydrogen production processes based on coal gasification with CO₂ capture</i> , International Journal of Hydrogen Energy, 2008, Volume 33, Issue 4, 1286 – 1294	2,93	2,93
23.	A.M. Cormos, C. Dinca, C.C. Cormos, <i>Multi-fuel multi-product operation of IGCC power plants with carbon capture and storage (CCS)</i> , Applied Thermal Engineering, 2015, 74, 20 - 27	2,624	2,624
24.	C.C. Cormos, <i>Assessment of chemical absorption/adsorption for post-combustion CO₂ capture from Natural Gas Combined Cycle (NGCC) power plants</i> , Applied Thermal Engineering, 82, 2015, 120 - 128	2,624	2,624
25.	E. Tzimas, A. Mercier, C.C. Cormos, S. Peteves, <i>Trade-off in emissions of acid gas pollutants and of carbon dioxide in fossil fuels power plants with carbon capture</i> , Energy Policy, 35, 2007, 3991 – 3998	2,696	0,674
26.	C.C. Cormos, A.M. Cormos, L. Petrescu, <i>Assessment of chemical looping-based conceptual designs for high efficient hydrogen and power co-generation applied to gasification processes</i> , Chemical Engineering Research and Design, 92, 2014, 741-751	2,293	2,293
27.	M. Muresan, C.C. Cormos, P.S. Agachi, <i>Techno-economical assessment of coal and biomass gasification-based hydrogen production supply chain system</i> , Chemical Engineering Research and Design, 91, 2013, 1527-1541	2,293	0,764
28.	S. Bandyopadhyay, C.C. Cormos, <i>Water Management in Process Industries Incorporating Regeneration and Recycle through a Single Treatment Unit</i> , Industrial and Engineering Chemistry Research, 2008, 47(4), 1111 – 1119	2,235	1,117
29.	M. Muresan, C.C. Cormos, S. Agachi, <i>Comparative life cycle analysis for gasification-based hydrogen production systems</i> , Journal of Renewable and Sustainable Energy, 6, 2014, 013131	1,51	0,503
30.	F. Goga, R. Dudric, C.C. Cormos, F. Imre, L. Bizo, Radu Misca, <i>Fly ash from thermal power plant, raw material for glass-ceramic</i> , Environmental Engineering and Management Journal, 12 (2), 2013, 337-342	1,258	0,209
31.	A. Padurean, C.C. Cormos, P.S. Agachi, <i>Techno-economic evaluation of pre- and post-combustion carbon dioxide capture methods applied for an IGCC plant for power generation</i> , Environmental Engineering and Management Journal, 12, 2013,	1,258	0,419

	2191- 2202		
32.	C.C. Cormos, A.M. Cormos, S. Agachi, <i>Power generation from coal and biomass based on IGCC concept with pre and post-combustion carbon capture methods</i> , Asia – Pacific Journal of Chemical Engineering, 4, 2009, 870 – 877	0,623	0,623
33.	F. Starr, C.C. Cormos, <i>Materials challenges and gasifier choices in IGCC processes for clean and efficient energy conversion</i> , Materials Research Innovations 15, 2011, 428-446	0,473	0,236
34.	C. Dinca, C.C. Cormos, H. Necula, <i>Environmental impact assessment of GHG emissions generated by coal life cycle and solutions for reducing CO₂</i> , Journal of Environmental Protection, 4, 2013, 5-15	0,67	0,223
35.	C.C. Cormos, F. Starr, E. Tzimas, S. Peteves, <i>Compressor issues for hydrogen production and transmission through a long distance pipeline network</i> , Revista de Chimie, 59(4), 2008, 443 – 447	0,677	0,677
36.	C.C. Cormos, A.M. Cormos, S. Agachi, <i>Modelarea și simularea procesului de carbonatare a saramurii amoniacale din cadrul tehnologiei de obținere a sodei calcinate</i> , Revista de Chimie, 57(2), 2006, 130-137	0,677	0,677
37.	C.C. Cormos, A.M. Cormos, S. Agachi, <i>Modelarea și simularea procesului de regenerare a amoniacului rezultat din tehnologia de obținere a sodei calcinate</i> , Revista de Chimie, 56(11), 2005, 1124-1130	0,677	0,677
38.	C.C. Cormos, S. Agachi, <i>Modelarea si simularea extractiei pantolactonei folosind programul ChemCAD</i> , Revista de Chimie, 56(7), 2005, 750-756	0,677	0,677
39.	B. Dorneanu, C.C. Cormos, <i>Techno-economic evaluation of Calcium Looping cycle for CO₂ capture from super-critical power plants</i> , Studia Universitatis Chemia, LIX, 4, 2014, 205 - 215	0,136	0,136
40.	M. Muresan, C.C. Cormos, P.S. Agachi, <i>Biomass gasification-based hydrogen supply chain analysis under demand variability</i> , Studia UBB Chemia, LIX, 3, 2014, 29 - 42	0,136	0,136
41.	I.M. Bodea, C.C. Cormos, <i>Applications of chemical looping combustion to energy conversion processes</i> , Studia Chemia, 4, 2013, 7-22	0,136	0,136
42.	C.C. Cormos, C. Dinca, <i>Assessment of mass and energy integration aspects for IGCC power plants with carbon capture and storage (CCS)</i> , Studia Universitatis Chemia, LVIII, 1, 2013, 117-131	0,136	0,136
43.	I.M. Bodea, C.C. Cormos, <i>Evaluation of iron and nickel-based oxygen carriers for natural gas chemical looping combustion systems</i> , Studia Universitatis Chemia, LVII, 2, 2012, 47 - 57	0,136	0,136

44.	M. Badaluta, C.C. Cormos, P.S. Agachi, <i>Hydrogen Production through co-gasification of coal and biomass with carbon dioxide capture</i> , Studia Universitatis Chemia, LVII, 1, 2012, 167-174	0,136	0,045
45.	V. Goia, C.C. Cormos, P.S. Agachi, <i>Influence of temperature and heating rate on biomass pyrolysis in a fixed-bed reactor</i> , Studia Universitatis Babes-Bolyai, Chemia, LVI, 2, 2011, 49 – 56	0,136	0,045
46.	A.M. Padurean, C.C. Cormos, A.M. Cormos, S. Agachi, <i>Technical assessment of CO₂ capture using alkanolamines solutions</i> , Studia Universitatis Babes-Bolyai, Chemia, LV, 1, 2010, 55 – 63	0,136	0,034
47.	V. Maxim, C.C. Cormos, P.S. Agachi, <i>Mathematical modeling and simulation of coal co-gasification with waste/biomass in an entrained-flow gasifier</i> , Studia Universitatis Babes-Bolyai, Chemia, LV, 2, 2010, 51 – 62	0,136	0,045
48.	C.C. Cormos, S. Agachi, <i>Gasification process – A practical way for solid fossil fuels decarbonisation</i> , Studia Universitatis Babes-Bolyai, Chemia, LIV, 1, 2009, 81 – 91	0,136	0,136
49.	Brevet national: L. Terec, G. Bora, V. Colceriu, C.C. Cormos, E. Cotoră, L. Lenta, M. Moga, H. Muresanu, M. Racolta, <i>Procedeu de purificare a 1,4 - benzochinon - guanil - hidrazon - tiosemicarbazona (ambazona)</i> , numar brevet: RO122360, Applicant: S.C. Terapia S.A., Cluj-Napoca, Romania	1	0,111
50.	Brevet international: L. Terec, G. Bora, V. Colceriu, C.C. Cormos, E. Cotoră, L. Lenta, M. Moga, H. Muresanu, M. Racolta, <i>Process for the purification of 1,4 - benzochinone - guanyl - hidrazon - tiosemicarbazone (ambazone)</i> , WO/2005/028431 A1, Applicant: S.C. Terapia S.A., Cluj-Napoca, Romania	3	0,333
Total FIC			78,691

IV. Număr total de citări (NC): NC ≥ 40

Scor realizat de candidat: NC = 600