



ACADEMIA ROMÂNĂ  
SCOSAAR

**AVIZAT**  
**PREȘEDINTE SCOSAAR**

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*Bogdan Simionescu*

ÎNDEPLINIREA STANDARDELOR MINIMALE

DA |  NU

**FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE**  
**conform CNATDCU**

Candidat: CS II Dr. **Brebu Mihai - Adrian**

**FIȘA DE VERIFICARE**

a îndeplinirii standardelor minime

Categorie:	$N_{max}$	FIC	$FIC_D$	$FIC_{AP}$	$FIC_{AC}$	$h_{index}$
<i>Profesor universitar, CSI / Abilitare</i>						
Condiții minime	50	100	70	50	25	13
Punctaj obținut de candidat	50	169.90	123.20	65.22	34.44	27

$h_{index}$ : conform Scopus, septembrie 2020

(\*)  $N_{max}$  = primele 50 lucrări organizate în ordine descrescătoare a factorilor de impact corespunzători revistelor în care au fost publicate;

(\*\*) FIC = factorul de impact cumulat minimal al revistelor în care s-au publicat cele 50 de lucrări;

(\*\*\*)  $FIC_D$  = factorul de impact cumulat minimal din cele 50 publicații în domeniile de cercetare declarate;

(\*\*\*\*)  $FIC_{AP}$  = factorul de impact cumulat minimal din cele 50 publicații în calitate de autor principal (prim autor și autor de corespondență);

(\*\*\*\*\*)  $FIC_{AC}$  = factorul de impact cumulat minimal din cele 50 publicații în calitate de autor de corespondență.

Data: 23.11.2020

Semnătura:

*Brebu Mihai*

**FIȘA DE VERIFICARE**

**Lista a 50 articole selectate ( $N_{max}$ ) publicate în reviste de specialitate de circulație internațională (indexate de Web of Science) după obținerea titlului de doctor (2002)**

Nr. Autori / titlu / revista /	FI	FI <sub>D</sub>	FI <sub>AP</sub>	FI <sub>AC</sub>	citări
1 <b>M. Brebu</b> , Y. Sakata Novel debromination method for flame-retardant high impact polystyrene (HIPS-Br) by ammonia treatment <i>Green Chemistry</i> , <b>8</b> (11), 984-987, 2006.	9.48	9.48	9.48	9.48	14
2 <b>M. Brebu</b> , T. Bhaskar, A. Muto, Y. Sakata Alkaline hydrothermal treatment of brominated high impact polystyrene (HIPS-Br) for bromine and bromine-free plastic recovery <i>Chemosphere</i> , <b>64</b> (6), 1021-1025, 2006.	5.778	5.778	5.778		32
3 <b>M. Brebu</b> , T. Bhaskar, K. Murai, A. Muto, Y. Sakata, °Md. A. Uddin: “The individual and cumulative effect of brominated flame retardant and polyvinylchloride (PVC) thermal degradation of acrylonitrile–butadiene–styrene (ABS) copolymer”, <i>Chemosphere</i> , <b>56</b> , 433-440, 2004.	5.778	5.778	5.778		69
4 <b>M. Brebu</b> , S. Ucar, C. Vasile, J. Yanik Co-pyrolysis of pine cone with synthetic polymers <i>Fuel</i> , <b>89</b> , 1911–1918, 2010.	5.578	5.578	5.578		184
5 C. Vasile, <b>M.A. Brebu</b> , T. Karayildirim, J. Yanik, H. Darie Feedstock Recycling from Plastics and Thermosets Fractions of Used Computers II) Pyrolysis Oil Upgrading <i>Fuel</i> , <b>86</b> , 477-485, 2007.	5.578	5.578			44
6 <b>M. Brebu</b> , T. Bhaskar, K. Murai, A. Muto, Y. Sakata, Md. A. Uddin The effect of PVC and/or PET on thermal degradation of polymer mixtures containing brominated ABS <i>Fuel</i> , <b>83</b> , 2021-2028, 2004.	5.578	5.578	5.578		30
7 A. Korkmaz, J. Yanik, <b>M. Brebu</b> , C. Vasile Pyrolysis of the tetra pak <i>Waste Management</i> , <b>29</b> , 2836-2841, 2009.	5.448	5.448			61
8 V. Popescu. C. Vasile, M. Brebu, G. L. Popescu, M. Moldovan, C. Prejmerean, L. Stănuț, C. Trișcă-Rusu, I. Cojocar The characterization of recycled PMMA <i>J. Alloys Compd.</i> , <b>483</b> , 432-436, 2009.	4.65				12
9 <b>M. Brebu</b> , T. Tamminen, L. Hannevold, M. Stöcker, I. Spiridon Catalytic upgrading of co-pyrolysis oils from bisphenol A polycarbonate and lignins <i>Polym. Degrad. Stabil.</i> , <b>102</b> , 88-94, 2014.	4.032	4.032	4.032	4.032	5
10 <b>M. Brebu</b> , I. Spiridon Co-pyrolysis of LignoBoost® lignin with synthetic polymers <i>Polym. Degrad. Stabil.</i> , <b>97</b> , 2104-2109, 2012.	4.032	4.032	4.032	4.032	35
11 E. Părpăriță, <b>M. Brebu</b> , Md. A. Uddin, J. Yanik, C. Vasile Pyrolysis behaviors of various biomasses <i>Polym. Degrad. Stabil.</i> , <b>100</b> , 1-9, 2014.	4.032	4.032			42
12 B. S. Munteanu, <b>M. Brebu</b> , C. Vasile Thermal behaviour of binary and ternary copolymers containing acrylonitrile <i>Polym. Degrad. Stabil.</i> , <b>98</b> , 1889-1897, 2013.	4.032	4.032			8

Nr.	Autori / titlu / revista /	FI	FI <sub>D</sub>	FI <sub>AP</sub>	FI <sub>AC</sub>	citări
13	S. B. Munteanu, <b>M. Brebu</b> , C. Vasile Thermal and thermo-oxidative behaviour of butadiene-styrene copolymers with different architectures <i>Polym. Degrad. Stabil.</i> , <b>89</b> (3), 501-512, 2005.	4.032	4.032			46
14	<b>M. Brebu</b> , T. Bhaskar, K. Murai, A. Muto, Y. Sakata, Md. A. Uddin Removal of nitrogen, bromine, and chlorine from PP/PE/PS/PVC/ABS-Br pyrolysis liquid products using Fe- and Ca-based catalysts <i>Polym. Degrad. Stabil.</i> , <b>87</b> (2), 225-230, 2005.	4.032	4.032	4.032		59
15	<b>M. Brebu</b> , T. Bhaskar, K. Murai, A. Muto, Y. Sakata, Md. A. Uddin Thermal degradation of PE and PS mixed with ABS-Br and debromination of pyrolysis oil by Fe- and Ca- based catalysts <i>Polym. Degrad. Stabil.</i> , <b>84</b> (3), 459-467, 2004.	4.032	4.032	4.032		48
16	R. N. Darie, <b>M. Brebu</b> , C. Vasile, M. Kozłowski On the compatibility of the IPP/PA6/EPDM blends with and without functionalized IPP. I. Thermo-oxidative behavior <i>Polym. Degrad. Stabil.</i> , <b>80</b> , 551-566, 2003.	4.032	4.032			26
17	I. C. A. Sandu, <b>M. Brebu</b> , C. Luca, I. Sandu, C. Vasile Thermogravimetric Study on the Ageing of Lime Tree Made Supports of Old Paintings <i>Polym. Degrad. Stabil.</i> , <b>80</b> , 83-91, 2003.	4.032				48
18	<b>M. Brebu</b> , T. Tamminen, I. Spiridon Thermal degradation of various lignins by TG-MS/FTIR and Py-GC-MS <i>J. Anal. Appl. Pyrol.</i> , <b>104</b> , 531-539, 2013.	3.905	3.905	3.905	3.905	128
19	S. Öneç, <b>M. Brebu</b> , C. Vasile, J. Yanik Copyrolysis of scrap tires with oily wastes <i>J. Anal. Appl. Pyrol.</i> , <b>94</b> , 184-189, 2012.	3.905	3.905			30
20	D. Rosu, L. Rosu, <b>M. Brebu</b> Thermal stability of silver sulfathiazole-epoxy resin network <i>J. Anal. Appl. Pyrol.</i> , <b>92</b> , 10-18, 2011.	3.905				26
21	<b>M. Brebu</b> , I. Spiridon Thermal degradation of keratin waste <i>J. Anal. Appl. Pyrol.</i> , <b>91</b> , 288-295, 2011.	3.905	3.905	3.905	3.905	70
22	K. Murata, <b>M. Brebu</b> , Y. Sakata The effect of silica-alumina catalysts on degradation of polyolefins by a continuous flow reactor <i>J. Anal. Appl. Pyrol.</i> , <b>89</b> , 30-38, 2010.	3.905	3.905			10
23	K. Murata, <b>M. Brebu</b> , Y. Sakata Thermal degradation of polyethylene into fuel oil over silica-alumina by a continuous flow reactor <i>J. Anal. Appl. Pyrol.</i> , <b>86</b> , 354-359, 2009.	3.905	3.905			4
24	K. Murata, <b>M. Brebu</b> , Y. Sakata The effect of PVC on thermal and catalytic degradation of polyethylene, polypropylene and polystyrene by a continuous flow reactor <i>J. Anal. Appl. Pyrol.</i> , <b>86</b> , 33-38, 2009.	3.905	3.905			14
25	<b>M. Brebu</b> , E. Jakab, Y. Sakata Effect of flame retardants and Sb <sub>2</sub> O <sub>3</sub> synergist on the thermal decomposition of high-impact polystyrene and on its debromination by ammonia treatment <i>J. Anal. Appl. Pyrol.</i> , <b>79</b> , 346-352, 2007.	3.905	3.905	3.905	3.905	34

Nr. Autori / titlu / revista /	FI	FI <sub>D</sub>	FI <sub>AP</sub>	FI <sub>AC</sub>	citări
26 T. Bhaskar, K. Murai, T. Matsui, <b>M. Brebu</b> , M. A. Uddin, A. Muto, Y. Sakata, K. Murata Studies on thermal degradation of Acrylonitrile-Butadiene-Styrene copolymer (ABS-Br) containing brominated flame retardant <i>J. Anal. Appl. Pyrol.</i> , <b>70</b> (2), 369-381, 2003.	3.905	3.905			45
27 <b>M. Brebu</b> , Environmental Degradation of Plastic Composites with Natural Fillers - A Review <i>Polymers</i> , <b>12</b> , 166, 2020.	3.426	3.426	3.426	3.426	0
28 C. Vasile, <b>M. A. Brebu</b> , M. Totolin, J. Yanik, T. Karayildirim, H. Darie Feedstock recycling from the printed circuit boards of used computers <i>Energy and Fuels</i> , <b>22</b> , 1658-1665, 2008.	3.421	3.421			29
29 C. Vasile, M. Râpă, M. Ștefan, M. Stan, S. Macavei, R. N. Darie-Niță, L. Barbu-Tudoran, D. C. Vodnar, E. E. Popa, R. Ștefan, G. Borodi, <b>M. Brebu</b> New PLA/ZnO:Cu/Ag bionanocomposites for food packaging <i>Express Polym. Lett.</i> , <b>11</b> , 531-544, 2017.	3.083				32
30 Butnaru, E., Stoleru, E., Brebu, M.A., Darie-Nita, R.N., Bargan, A., Vasile, C. Chitosan-based bionanocomposite films prepared by emulsion technique for food preservation” <i>Materials</i> , <b>12</b> , 373, 2019.	3.057				9
31 R. N. Darie-Niță, C. Vasile, E. Stoleru, D. Pamfil, T. Zaharescu, L. Tarțău, Niță Tudorachi, <b>M. A. Brebu</b> , G. M. Pricope, R. P. Dumitriu, K. Leluk Evaluation of the rosemary extract effect on the properties of polylactic acid-based materials <i>Materials</i> , <b>11</b> , 1825, 2018.	3.057				9
32 C. Vasile, M. Sivertsvik, A. C. Mitelut, <b>M. A. Brebu</b> , E. Stoleru, J. T. Rosnes, E. E. Tanase, W. Khan, D. Pamfil, C. P. Cornea, A. I., M. E. Popa Comparative analysis of the composition and active property evaluation of certain essential oils to assess their potential applications in active food packaging <i>Materials</i> , <b>10</b> , 45, 2017.	3.057				14
33 I. Rosca, A. R. Petrovici, M. Brebu, I. Stoica, B. Minea, N. Marangoci An original method for producing acetaldehyde and diacetyl by yeast fermentation <i>Braz. J. Microbiol.</i> <b>47</b> , 949-954, 2016.	2.428				4
34 P. Aelenei, C. M. Rimbu, E. Guguianu, G. Dimitriu, A. C. Aprotosoai, <b>M. Brebu</b> , C. E. Horhoga, A. Miron Coriander essential oil and linalool – interactions with antibiotics against Gram-positive and Gram-negative bacteria <i>Lett. Appl. Microbiol.</i> , <b>68</b> , 156-164, 2019.	2.173				11
35 A. C. Grădinaru, A. Trifan, A. Șpac, <b>M. Brebu</b> , A. Miron, A. C. Aprotosoai Antibacterial activity of traditional spices against lower respiratory tract pathogens: combinatorial effects of <i>Trachyspermum ammi</i> essential oil with conventional antibiotics <i>Lett. Appl. Microbiol.</i> , <b>67</b> , 449-457, 2018.	2.173				2

Nr. Autori / titlu / revista /	FI	FI <sub>D</sub>	FI <sub>AP</sub>	FI <sub>AC</sub>	citări
36 C. Vasile, <b>M. Brebu</b> , H. Darie, G. Cazacu Effect of some environmentally degradable materials on the pyrolysis of plastics II: influence of cellulose and lignin on the pyrolysis of complex mixtures <i>J. Mater. Cycles Waste Manag.</i> , <b>12</b> , 147–153, 2010.	1.974	1.974			10
37 N. M. M. Mitan, <b>M. Brebu</b> , T. Bhaskar, A. Muto, Y. Sakata Individual and simultaneous degradation of brominated high impact polystyrene and brominated acrylonitrile-butadiene-styrene and removal of heteroelements (Br, N, and O) from degradation oil by multiphase catalytic systems <i>J. Mater. Cycles Waste Manag.</i> , <b>9</b> , 56-61, 2007.	1.974	1.974			18
38 N. M. M. Mitan, <b>M. Brebu</b> , T. Bhaskar, A. Muto, Y. Sakata, M. Kaji Co-processing of DVDs and CDs with vegetable cooking oil by thermal degradation <i>J. Mater. Cycles Waste Manag.</i> , <b>9</b> , 62-68, 2007.	1.974	1.974			9
39 C. Vasile, <b>M.A. Brebu</b> , T. Karayildirim, J. Yanik, H. Darie, “Feedstock Recycling from Plastics and Thermosets Fractions of Used Computers I) Pyrolysis”, <i>J. Mater. Cycles Waste Manag.</i> , <b>8</b> , 99-108, 2006.	1.974	1.974			29
40 Sandu, I., Iurcovschi, C.T., Sandu, I.G., Vasilache, V., Negru, I.C., Brebu, M., Ursu, P.S., Pelin, V. Multianalytical study for establishing the historical contexts of the Church of the Holy Archangels from Cicău, Alba County, Romania, for its promotion as a world heritage good I. Assessing the preservation-restoration works from the 18th century <i>Revista de Chimie</i> , <b>70</b> , 2538-2544, 2019.	1.755				1
41 <b>M. Brebu</b> , I. Bunia, M. Silion On the Molecular Mass of Pyrolysis Oils from Polyolefins <i>Rev. Chim. (Bucharest)</i> , <b>64</b> , 1197-1200, 2013.	1.755	1.755	1.755	1.755	0
42 A. M. Saviuc-Paval, I. Sandu, I. M. Popa, A. V. Sandu, <b>M. Brebu</b> , I. G Sandu Obtaining and Characterization of New Ceramic Pigments for Polychrome Artistic Elements. III. Thermogravimetric analysis <i>Rev. Chim. (Bucharest)</i> , <b>63</b> , 273-282, 2012.	1.755				3
43 I. G. Sandu, S. Stoleru, I. Sandu, <b>M. Brebu</b> , A.V. Sandu Authentication of ancient bronze coins by archeological patina study. I. Composition and Structure <i>Revista de Chimie</i> , <b>56</b> (10), 981-994, 2005 (Romanian).	1.755				30
44 A. C. Aprotosoai, N. Ciocârlan, <b>M. Brebu</b> , A. Trifan, A. C. Grădinaru, A. Miron Chemical composition, antioxidant and antimicrobial activities of <i>Mentha Gattefossei</i> maire essential oil <i>Farmacia</i> , <b>66</b> , 778-782, 2018.	1.607				2
45 A. Trifan, A. C. Aprotosoai, <b>M. Brebu</b> , O. Cioancă, E. Gille, M. Hăncianu, A. Miron Chemical composition and antioxidant activity of essential oil from romanian <i>Satureja Montana</i> L. <i>Farmacia</i> , <b>63</b> , 413-416, 2015.	1.607				15
46 A. C. Grădinaru, A. C. Aprotosoai, A. Trifan, A. Șpac, <b>M. Brebu</b> , A. Miron Interactions between cardamom essential oil and conventional antibiotics against <i>Staphylococcus Aureus</i> clinical isolates <i>Farmacia</i> , <b>62</b> , 1214-1222, 2014.	1.607				10

Nr. Autori / titlu / revista /	FI	FI <sub>D</sub>	FI <sub>AP</sub>	FI <sub>AC</sub>	citări
47 A. C. Aprotosoae, A. Miron, N. Ciocârlan, <b>M. Brebu</b> , C. M. Roșu, A. Trifan, G. Vochița, D. Gherghel, S. V. Luca, A. Niță, I. I. Costache, C. T. Mihai Essential oils of Moldavian Thymus species: Chemical composition, antioxidant, anti-Aspergillus and antigenotoxic activities <i>Flavour. Fragr. J.</i> , <b>34</b> , 175-186, 2019.	1.598				6
48 M. I. Guignard, C. Campagne, S. Giraud, <b>M. Brebu</b> , N. Vranceanu, L. I. Cioca Functionalization of a bamboo knitted fabric using air plasma treatment for the improvement of microcapsules embedding <i>J. Text. I.</i> , <b>106</b> , 119-132, 2015.	1.239				10
49 L. Profire, M. Apotrosoaei, A. Oprea, <b>M. Brebu</b> , F. Lupascu, C. E. Lupusoru, C. Vasile The synthesis, characterization and biological evaluation of a new nitric oxide donor agent <i>J. Serb. Chem. Soc.</i> , <b>79</b> , 389-400, 2014.	1.097				1
50 C. L. Apetrei, A. Spac, <b>M. Brebu</b> , C. Tuchilus, A. Miron Composition, and antioxidant and antimicrobial activities of the essential oils of a full-grown Pinus cembra L. tree from the Calimani Mountains (Romania) <i>J. Serb. Chem. Soc.</i> , <b>78</b> , 27-37, 2013.	1.097				15
<b>Total</b>	<b>FIC</b>	<b>FIC<sub>D</sub></b>	<b>FIC<sub>AP</sub></b>	<b>FIC<sub>AC</sub></b>	<b>citări</b>
	<b>169.9</b>	<b>123.2</b>	<b>65.22</b>	<b>34.44</b>	<b>1393</b>

Nr. citări: conform Scopus, septembrie 2020

Data: 17.09.2020

Semnătura:

Dr. Brebu Mihai - Adrian