ПРИЛОЖЕНИЕ 2

СПИСЪК НА ИЗБРАНИ НАУЧНИ ТРУДОВЕ

НА ЧЛ. КОР. ПРОФ. ДГН СТАНИСЛАВ ВАСИЛЕВ ВАСИЛЕВ

(в хронологичен ред)

Обобщена информация

Общ брой публикации – 35:

- Публикации в международни списания – 35; в български – 0;
- Публикации в списания с импакт-фактор – 35, разпределени по качество в категории списания (Q) според Scopus, както следва:
  - Q1, първа четвърт (топ 25 %) – 34 броя
  - Q2, втора четвърт (между 26 и 50 %) – 1 брой
- Първи автор - 35 публикации; втори автор - 0; трети и следващ автор - 0

Брой публикации за последните 5 години (2019-2024) – 5 (в международни списания с импакт-фактор – 5; категории Q1 - 4, Q2 - 1)

Общ брой цитати на избраните публикации – 9681

Брой цитати на избраните публикации, забелязани за последните 5 години (2019-2024) – 5398

Н-индекс = 40 (базиран на представения от кандидата списък с цитирания за всички 120 публикации) и **39** (на базата на 75 публикации в Scopus)

В допълнение:

- 23 броя от избраните за конкурса 35 публикации са включени в класацията **„Топ 1-10%”** на най-цитираните публикации за съответната научна област според Scopus, 26.04.2024 г.

- 10 броя публикации (№ 1, 17, 20, 21, 22,23, 24, 25, 27, 28) от избраните за конкурса публикации (Приложение 2) попадат в „Списъка на най-цитираните 245 публикации, оформящи Н-индекса на БАН, до 09.10.2023 г.“

Забележка:

- В колона 1 със * са отбелязани публикациите, включени в класацията „Топ 1-10%” на най-цитираните публикации за съответната научна област (според Scopus, 26.04.2024 г.)
- В колона 2 в квадратни скоби са посочени номерата на съответния труд според Приложение 1 „Списък на научните трудове за целия творчески период“
- В колона 3 (Q) е даден квартила на списанието според WoS, 2023 г.

№ по ред	**Автори, заглавие, списание**	**Q**	**Брой цитати**
1*	[17] **Vassilev S**, Kitano K, Takeda S, Tsurue T. Influence of mineral and chemical composition of coal ashes on their fusibility. *Fuel Processing Technology (**1995**), 45: 27-51.* **(Топ 1-10%)**	Q1	360
2*	[21] **Vassilev S**, Vassileva C. Mineralogy of combustion wastes from coal-fired power stations. *Fuel Processing Technology (**1996**), 47: 261-280.* **(Топ 1-10%)**	Q1	227
3	[24] **Vassilev S**, Vassileva C. Occurrence, abundance and origin of minerals in coals and coal ashes. *Fuel Processing Technology (**1996**), 48: 85-106.*	Q1	182
4*	[26] **Vassilev S**, Vassileva C. Geochemistry of coals, coal ashes and combustion wastes from coal-fired power stations. *Fuel Processing Technology (**1997**), 51: 19-45.* **(Топ 1-10%)**	Q1	188
5*	[32] **Vassilev S**, Braekman-Danheux C, Laurent P. Characterization of refuse-derived char from municipal solid waste. 1. Phase-mineral and chemical composition. *Fuel Processing Technology (**1999**), 59: 95-134.* **(Топ 1-10%)**	Q1	61
6	[33] **Vassilev S,** Braekman-Danheux C. 1999. Characterization of refuse-derived char from municipal solid waste. 2. Occurrence, abundance and source of trace elements. *Fuel Processing Technology (**1999**), 59: 135-161.*	Q1	54
7	[34] **Vassilev S**, Braekman-Danheux C, Laurent P, Thiemann T, Fontana A.. Behaviour, capture and inertization of some trace elements during combustion of refuse-derived char from municipal solid waste. *Fuel (**1999**), 78: 1131-1145.*	Q1	92
8	[43] **Vassilev S**, Braekman-Danheux C, Moliner R, Suelves I, Lazaro MJ, Thiemann T. Low cost catalytic sorbents for NOx reduction. 1. Preparation and characterization of coal char impregnated with model vanadium components and petroleum coke ash. *Fuel (**2002**), 81: 1281-1296.*	Q1	26
9*	[46] **Vassilev S**, Tascon J. Methods for characterization of inorganic and mineral matter in coal: a critical overview. *Energy and Fuels (**2003**), 17: 271-281.* **(Топ 1-10%)**	Q1	155
10*	[48] **Vassilev S**, Menendez R, Alvarez D, Diaz-Somoano M, Martinez-Tarazona MR. Phase-mineral and chemical composition of coal fly ashes as a basis for their multicomponent utilization. 1. Characterization of feed coals and fly ashes. *Fuel (**2003**), 82: 1793-1811.* **(Топ 1-10%)**	Q1	229
11*	[49] **Vassilev S**, Menendez R, Diaz-Somoano M, Martinez-Tarazona MR. Phase-mineral and chemical composition of coal fly ashes as a basis for their multicomponent utilization. 2. Characterization of ceramic cenosphere and water-soluble salt concentrates. *Fuel (**2004**), 83: 585-603.* **(Топ 1-10%)**	Q1	173
12*	[51] **Vassilev S**, Menendez R, Borrego A, Diaz-Somoano M, Martinez-Tarazona MR. Phase-mineral and chemical composition of coal fly ashes as a basis for their multicomponent fly ash utilization. 3. Characterization of magnetic and char concentrates. *Fuel (**2004**), 83: 1563-1583.* . **(Топ 1-10%)**	Q1	133
13*	[53] **Vassilev S**, Vassileva C, Karayigit A, Bulut Y, Alastuey A, Querol X. Phase-mineral and chemical composition of composite samples from feed coals, bottom ashes and fly ashes at the Soma power station, Turkey. *International Journal of Coal Geology (**2005**), 61: 35-63.* **(Топ 1-10%)**	Q1	140
14*	[54] **Vassilev S**, Vassileva C, Karayigit A, Bulut Y, Alastuey A, Querol X. Phase-mineral and chemical composition of fractions separated from composite fly ashes at the Soma power station, Turkey. *International Journal of Coal Geology (**2005**), 61: 65-85.* **(Топ 1-10%)**	Q1	69

15*	[55] **Vassilev S**, Menendez R. Phase-mineral and chemical composition of coal fly ashes as a basis for their multicomponent utilization. 4. Characterization of heavy concentrates and improved fly ash residues. *Fuel (**2005**), 84: 973-991.* **(Топ 1-10%)**	Q1	76
16*	[58] **Vassilev S**, Vassileva C. Methods for characterization of composition of fly ashes from coal-fired power stations: a critical overew. *Energy and Fuels (**2005**), 19: 1084-1098.* **(Топ 1-10%)**	Q1	265
17*	[67] **Vassilev S**, Vassileva C. A new approach for the classification of coal fly ashes based on their origin, composition, properties, and behaviour. *Fuel (**2007**), 86: 1490-1512.* **(Топ 1-10%)**	Q1	424
18*	[71] **Vassilev S**, Vassileva C. A new approach for the combined chemical and mineral classification of the inorganic matter in coal. 1. Chemical and mineral classification systems. *Fuel (**2009**), 88: 235-245.* **(Топ 1-10%)**	Q1	122
19	[72] **Vassilev S**, Vassileva C, Baxter D, Andersen L. A new approach for the combined chemical and mineral classification of the inorganic matter in coal. 2. Potential applications of the classification systems. *Fuel (**2009**), 88: 246-254.*	Q1	40
20*	[73] **Vassilev S**, Baxter D, Andersen L, Vassileva C. An overview of the chemical composition of biomass. *Fuel (**2010**), 89: 913-933.* **(Топ 1-10%)**	Q1	2364
21*	[81] **Vassilev S**, Baxter D, Andersen L, Vassileva C, Morgan T. An overview of the organic and inorganic phase composition of biomass. *Fuel (**2012**), 94: 1-33.* **(Топ 1-10%)**	Q1	959
22*	[83] **Vassilev S**, Baxter D, Andersen L, Vassileva C. An overview of the composition and application of biomass ash. Part 1. Phase-mineral and chemical composition and classification. *Fuel (**2013**), 105: 40-76.* **(Топ 1-10%)**	Q1	926
23*	[84] **Vassilev S**, Baxter D, Andersen L, Vassileva C. An overview of the composition and application of biomass ash. Part 2. Potential utilization, technological and ecological advantages and challenges. *Fuel (**2013**), 105: 19-39.* **(Топ 1-10%)**	Q1	441
24*	[85] **Vassilev S**, Baxter D, Vassileva C. An overview of the behaviour of biomass during combustion: Part I. Phase-mineral transformations of organic and inorganic matter. *Fuel (**2013**), 112: 391-449.* **(Топ 1-10%)**	Q1	418
25*	[87] **Vassilev S**, Baxter D, Vassileva C. An overview of the behaviour of biomass during combustion: Part II. Ash fusion and ash formation mechanisms of biomass types. *Fuel (**2014**), 117: 152-183.* **(Топ 1-10%)**	Q1	259
26*	[88] **Vassilev S**, Vassileva C, Baxter D. Trace element concentrations and associations in some biomass ashes. *Fuel (**2014**), 129: 292-313.* **(Топ 1-10%)**	Q1	125
27	[89] **Vassilev S**, Vassileva C, Vassilev V. Advantages and disadvantages of composition and properties of biomass in comparison with coal: An overview. *Fuel (**2015**), 158: 330-350.* **(Топ 1-10%)**	Q1	598
28*	[93] **Vassilev S**, Vassileva C. Composition, properties and challenges of algae biomass for biofuel application: An overview. *Fuel (**2016**), 181: 1-33.* **(Топ 1-10%)**	Q1	380
29*	[96] **Vassilev S,** Vassileva C, Song Y, Li W-Y, Feng J. Ash contents and ash-forming elements of biomass and their significance for solid biofuel combustion. *Fuel (**2017**), 208: 377-409.* **(Топ 1-10%)**	Q1	124
30	[98] **Vassilev S**, Vassileva C. Water-soluble fractions of biomass and biomass ash and their significance for biofuel application. *Energy and Fuels (**2019**), 33 (4): 2763-2777.*	Q1	45
31	[100] **Vassilev S**, Vassileva C. Contents and associations of rare earth elements and yttrium in biomass ashes. *Fuel (**2020**), 262: 116525.*	Q1	9

32	[109] **Vassilev, S.**, Vassileva, C., Petrova, N. 2022. Thermal behaviour of biomass ashes in air and inert atmosphere with respect to their decarbonation. *Fuel*, 314: 122766.	Q1	6
33	[111] **Vassilev S**, Vassileva C, Petrova N. Mineral carbonation of thermally treated and weathered biomass ashes with respect to their CO_2 capture and storage. *Fuel* ***(2022)***, 321: 124010.	Q1	3
34	[114] **Vassilev, S.**, Vassileva, C., Bai, J. Content, modes of occurrence, and significance of phosphorous in biomass and biomass ash. *Journal of the Energy Institute* ***(2023)***, 108: 101205.	Q2	4
35	[117] **Vassilev, S.**, Vassileva, C. A retrospection on the content, association, and significance of mercury in coals and coal ashes from Bulgarian thermoelectric power stations. *Journal of Hazardous Materials* ***(2023)***, 457: 131850.	Q1	4