

## СПИСЪК НА НАУЧНИТЕ ТРУДОВЕ

НА ДОЦ. Д-Р МАРГАРИТА ВАЛЕНТИНОВА ГАБРОВСКА  
ПРЕДСТАВЕНИ ЗА УЧАСТИЕ В КОНКУРС ЗА „ПРОФЕСОР“  
(ДВ, БР. 77 от 01.10.2019)

№	НАУЧНИ ТРУДОВЕ	IF	Q	точки	цитати
<b>НАУЧНИ ПУБЛИКАЦИИ В ИЗДАНИЯ, КОИТО СА РЕФЕРИРАНИ И ИНДЕКСИРАНИ В СВЕТОВНОИЗВЕСТНИ БАЗИ ДАННИ С НАУЧНА ИНФОРМАЦИЯ (WEB OF SCIENCE И/ИЛИ SCOPUS)</b>					
<b>Публикациите са оценени съгласно scimago journal rank, а IF е съгласно scijournal.org</b>					
1	<b>M. Gabrovska</b> , R. Edreva-Kardjieva*, K. Tenchev, P. Tzvetkov, A. Spojakina, L. Petrov, “Effect of Co-content on the structure and activity of Co-Al hydrotalcite-like materials as catalyst precursors for CO oxidation”, <i>Appl. Catal. A-Gen.</i> 399 (2011) 242–251.	3.903	Q1	25	58
2	<b>M. Gabrovska*</b> , J. Krstić, P. Tzvetkov, K. Tenchev, M. Shopska, N. Vukelić, D. Jovanović, “Effect of the support and the reduction temperature on the formation of metallic nickel phase in Ni/silica gel precursors of vegetable oil hydrogenation catalysts”, <i>Russ. J. Phys. Chem. A</i> , 85 (2011) 2392–2398.	0.459	Q4	12	6
3	<b>M. Gabrovska*</b> , R. Edreva-Kardjieva, D. Crişan, P. Tzvetkov, M. Shopska, I. Shtereva, “Ni-Al layered double hydroxides as catalyst precursors for CO <sub>2</sub> removal by methanation”, <i>React. Kinet. Mech. Cat.</i> 105(1) (2012) 79–99.	1.104	Q3	15	40
4	<b>M. Gabrovska*</b> , V. Idakiev, K. Tenchev, D. Nikolova, R. Edreva-Kardjieva, D. Crisan, “Catalytic performance of Ni-Al Layered Double Hydroxides in CO purification processes”, <i>Russ. J. Phys. Chem. A</i> , 87(13) (2013) 2152–2159.	0.488	Q3	15	3
5	<b>M. V. Gabrovska*</b> , R. M. Edreva-Kardjieva, D. D. Crişan, K. K. Tenchev, D. A. Nikolova, M. Crişan, “Structure and reducibility of the mixed metal oxides obtained from Ni-Al layered double hydroxides. Catalytic activity in CO <sub>2</sub> methanation reaction”, <i>Bulg. Chem. Commun.</i> 45(4) (2013) 617–624.	0.320	Q4	12	5
6	<b>M. Gabrovska*</b> , D. Crişan, N. Stănică, D. Nikolova, L. Bilyarska, M. Crişan, R. Edreva-Kardjieva, “Co-Al Layered Double Hydroxides as Precursors of Ceramic Pigment CoAl <sub>2</sub> O <sub>4</sub> . Part I: Phase Composition”, <i>Rev. Roum. Chim.</i> 59(6-7) (2014) 447–452.	0.311	Q3	15	6
7	<b>M. Gabrovska*</b> , N. Stănică, D. Crişan, D. Nikolova, L. Bilyarska, M. Crişan, R. Edreva-Kardjieva, “Co-Al Layered Double Hydroxides as Precursors of Ceramic Pigment CoAl <sub>2</sub> O <sub>4</sub> . Part II: Magnetic and Tint Properties”, <i>Rev. Roum. Chim.</i> 59(6-7) (2014) 453–457.	0.311	Q3	15	1

8	M. Stanković*, Ž. Čupić, <b>M. Gabrovska</b> , P. Banković, D. Nikolova, D. Jovanović, “Characteristics and catalytic behavior of supported NiMgAg/D catalysts in partial hydrogenation of soybean oil”, <i>React. Kinet. Mech. Cat.</i> 115(1) (2015) 105–127.	1.265	Q3	15	7
9	J. Krstić*, <b>M. Gabrovska</b> , D. Lončarević, D. Nikolova, V. Radonjić, N. Vukelić, D.M. Jovanović, “Influence of Ni/SiO <sub>2</sub> activity on the reaction pathway in sunflower oil hydrogenation”, <i>Chem. Eng. Res. Des.</i> 100 (2015) 72–80.	2.525	Q1	25	3
10	V. Radonjić*, J. Krstić, D. Lončarević, D. Jovanović, N. Vukelić, M. Stanković, D. Nikolova, <b>M. Gabrovska</b> , “Perlite as a Potential Support for Nickel Catalyst in the Process of Sunflower Oil Hydrogenation”, <i>Russ. J. Phys. Chem. A</i> , 89(13) (2015) 2359–2366.	0.597	Q4	12	2
11	<b>M. V. Gabrovska*</b> , R. M. Edreva-Kardjieva, M. G. Shopska, D. A. Nikolova, L. P. Bilyarska, D. Crişan, M. Crişan, “Purification of hydrogen-rich streams from CO <sub>2</sub> by methanation”, <i>Bulg. Chem. Commun.</i> Vol. 47, Sp. Issue C (2015) 66–72.	0.229	Q4	12	
12	<b>M. V. Gabrovska*</b> , D. A. Nikolova, E. A. Mladenova, D. E. Vladikova, S. K. Rakovsky, Z. B. Stoykov, “Ni incorporation in pSOFC anode ceramic matrix: Part I. Wet chemical reduction in an aqueous medium”, <i>Bulg. Chem. Commun.</i> Vol. 49, Sp. Issue C (2017) 171-178	0.242	Q4	12	
13	T. Batakliiev*, V. Georgiev, P. Karakashkova, <b>M. Gabrovska</b> , D. Nikolova, M. Anachkov, S. Rakovsky, “Gas phase ozone decomposition over co-precipitated Ni-based catalysts”, <i>Bulg. Chem. Commun.</i> Vol. 49, Sp. Issue L (2017) 24–29.	0.242	Q4	12	
14	<b>M. V. Gabrovska*</b> , D. A. Nikolova, E. A. Mladenova, D. E. Vladikova, S. K. Rakovsky, Z. B. Stoykov, “Ni incorporation in pSOFC anode ceramic matrix: Part II. Wet chemical reduction in an anhydrous medium”, <i>Bulg. Chem. Commun.</i> Vol. 50, Sp. Issue A (2018) 119–126.	0.242	Q4	12	
15	D. Crişan*, N. Drăgan, M. Crişan, A. Ianculescu, L. Todan, J. Védrine, D. Filkova, <b>M. Gabrovska</b> , R. Edreva-Kardjieva, “Structural study of MO-Nd <sub>2</sub> O <sub>3</sub> system obtained by sol-gel procedure”, <i>C.R. Chim.</i> 21 (2018) 232–246.	2.366	Q2	20	1
16	<b>M. V. Gabrovska*</b> , D. Crişan, D. A. Nikolova, I. Z. Shtereva, L. P. Bilyarska, M. Crişan, R. M. Edreva-Kardjieva, “Structure and activity of M-Al layered double hydroxides in CO <sub>2</sub> methanation reaction as function of the divalent metal”, <i>Bulg. Chem. Commun.</i> Vol. 50, Sp. Issue H (2018) 24–33.	0.242	Q4	12	
17	<b>M. V. Gabrovska*</b> , D. A. Nikolova, J. B. Krstić, D. R. Loncarević, P. T. Tzvetkov, M. G. Shopska, V. D. Radonjić,	0.242	Q4	12	

	M. V. Stanković, D. M. Jovanović L. T. Spasov, D. B. Simeonov, “Improved catalyst performance of Ni/SiO <sub>2</sub> in vegetable oil hydrogenation: impact of Mg dopant”, <i>Bulg. Chem. Commun.</i> Vol. 50, Sp. Issue H (2018) 161–168.				
18	M. Crişan*, D. Mardare, A. Ianculescu, N. Drăgan, I. Niţoi, D. Crişan, M. Voicescu, L. Todan, P. Oancea, C. Adomniţei, M. Dobromir, <b>M. Gabrovska</b> , B. Vasile, “Iron doped TiO <sub>2</sub> films and their photoactivity in nitrobenzene removal from water”, <i>Appl. Surf. Sci.</i> 455 (2018) 201–215.	5.155	Q1	25	15
19	<b>M. Gabrovska*</b> , T. Tabakova, I. Ivanov, D. Kovacheva, “Water-Gas Shift Reaction over Gold deposited on NiAl Layered Double Hydroxides”, <i>React. Kinet. Mech. Cat.</i> 127(1) (2019) 187–203.	1.142	Q3	15	
20	D. Nikolova*, R. Edreva-Kardjieva, H. Kolev, <b>M. Gabrovska</b> , “Promoted Re/Al <sub>2</sub> O <sub>3</sub> systems as sour water-gas shift catalysts”, <i>Catal. Today</i> , Available online 20 May 2019, In Press, Corrected Proof. <a href="https://doi.org/10.1016/j.cattod.2019.05.038">https://doi.org/10.1016/j.cattod.2019.05.038</a> .	4.888	Q1	25	
<b>ГЛАВА ОТ КНИГА</b>					
21	<b>M. Gabrovska*</b> , D. Nikolova, M. Shopska, L. Bilyarska, R. Edreva-Kadjieva, D. Crişan, N. Stănică, M. Crişan, “Ni-Al layered double hydroxides as precursors of ceramic pigments” In: <i>Proceedings of the III Advanced Ceramics and Applications Conference</i> , 2016, pp. 205–220. Atlantis Press, Paris. Lee W., Gadow R., Mitic V., Obradovic N. (Eds.). ISBN 978-94-6239-156-7, ISBN 978-94-6239-157-4 (eBook), DOI 10.2991/978-94-6239-157-4; <a href="https://link.springer.com/book/10.2991%2F978-94-6239-157-4#about">https://link.springer.com/book/10.2991%2F978-94-6239-157-4#about</a>			15	1
22	M. Stanković*, J. Krstić, <b>M. Gabrovska</b> , V. Radonjić, <b>D. Nikolova</b> , <b>D. Lončarević</b> , D. Jovanović. <u>Chapter 8</u> : “Supported Nickel-Based Catalysts for Partial Hydrogenation of Edible Oils”, <b>In Book</b> : <i>New Advances in Hydrogenation Processes – Fundamentals and Applications</i> . M. Ravanchi (Ed.). InTech, 2017, pp. 131–179. DOI: 10.5772/62820; ISBN: 978-953-51-2870-0, Print ISBN: 978-953-51-2869-4. <a href="https://www.intechopen.com/books/new-advances-in-hydrogenation-processes-fundamentals-and-applications">https://www.intechopen.com/books/new-advances-in-hydrogenation-processes-fundamentals-and-applications</a>			15	1
<b>ПАТЕНТ</b>					
23	Nino Borchtchoukova, Vyacheslav Feldman, Gennadi Finkelshtain, Slavcho Rakovsky, <b>Margarita Gabrovska</b> , Dimitrinka Nikolova, Lyubima Bilyarska, “Nickel-Based Catalyst For Fuel Cell”, Publ. No <b>US 2017/0263942 A1</b> , Publication date 14.09.2017.			25	1

---

**НАУЧНИ ПУБЛИКАЦИИ ИЗВЪН БАЗАТА ДАННИ (WEB OF SCIENCE И/ИЛИ SCOPUS)**

---

- 24 **М. Габровска\***, Д. Николова, Р. Едрева-Кърджиева, “Никелови катализатори за хидрогениране на растителни масла като суровини за хранително-вкусовата промишленост”, *Списание на Българската академия на науките*, 5 (2013) 29–32, Академично издателство “Проф. Марин Дринов”.
- 

**НАУЧНИ ПУБЛИКАЦИИ В РЕЦЕНЗИРАНИ ТЕМАТИЧНИ СБОРНИЦИ ОТ МЕЖДУНАРОДНИ НАУЧНИ ФОРУМИ**

---

- 25 **М. Gabrovska\***, P. Tzvetkov, K. Tenchev, L. Spasov, J. Krstić, N. Vukelić, D. Jovanović, “Formation of the metallic nickel phase in the Ni/silica gel precursors of vegetable oil hydrogenation catalysts”, *PHYSICAL CHEMISTRY 2010. 10<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, 21–24 September 2010, Belgrade, Serbia. A. Antić-Jovanović (Ed.). *Proceedings Vol. I (2010)* 104–106; ISBN 978-86-82475-17-0.
- 

- 26 **М. Gabrovska\***, M. Shopska, D. Nikolova, D. Simeonov, J. Krstić, M. Stanković, D. Jovanović, “Effect of the support on the components interaction in the Ni/silica gel precursors of vegetable oil hydrogenation catalysts”, *PHYSICAL CHEMISTRY 2010. 10<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, 21–24 September 2010, Belgrade, Serbia. A. Antić-Jovanović (Ed.). *Proceedings Vol. I (2010)* 128–130; ISBN 978-86-82475-17-0.
- 

- 27 D. Nikolova\*, Pl. Stefanov, J. Krstić, **М. Gabrovska**, L. Spasov, D. Lončarević, D. Jovanović, “Influence of the reduction temperature on the nickel surface state in the Ni/silica gel vegetable oil hydrogenation catalysts”, *PHYSICAL CHEMISTRY 2012. 11<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 24–28, Belgrade Serbia. S. Anić and Ž. Čupić (Eds.), *Proceedings Vol. I (2012)* 172–174; ISBN 978-86-82475-27-9.
- 

- 28 J. Krstić, **М. Gabrovska\***, D. Lončarević, D. Nikolova, D. Simeonov, M. Stanković, N. Vukelić, “Hydrogenation of sunflower oil over Ni/silica gel catalysts”, *PHYSICAL CHEMISTRY 2012. 11<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 24–28, Belgrade Serbia. S. Anić and Ž. Čupić (Eds.), *Proceedings Vol. I (2012)* 175–177; ISBN 978-86-82475-27-9.
- 

- 29 **М. Gabrovska\***, D. Nikolova, M. Shopska, P. Tzvetkov, L. Spasov, D. Simeonov and D. Jovanović, “Effect of Mg additive on the structure and texture of Ni/SiO<sub>2</sub> precursors of vegetable oil hydrogenation catalysts”, *PHYSICAL CHEMISTRY 2014. 12<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 22–26, Belgrade Serbia. Ž. Čupić and S. Anić (Eds.), *Proceedings Vol. I (2014)* 235–238; ISBN 978-86-82475-30-9.
- 

- 30 V. Radonjić\*, J. Krstić, D. Lončarević, M. Stanković, D. Jovanović, N. Vukelić, D. Nikolova, **М. Gabrovska**, “Synthesis and textural characteristics of nickel based catalyst supported on perlite”, *PHYSICAL CHEMISTRY 2014. of the 12<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 22–26, Belgrade Serbia. Society of Physical Chemists of Serbia. Ž. Čupić and S. Anić (Eds.). *Proceedings Vol. I (2014)* 272–275; ISBN: 978-86-82475-30-9.
- 

- 31 J. Krstić\*, V. Radonjić, **М. Gabrovska**, D. Nikolova, L. Bilyarska, K. Tenchev and N. Vukelić, “Effect of Mg additive on the vegetable oil hydrogenation activity of Ni/SiO<sub>2</sub> catalysts”, *PHYSICAL CHEMISTRY 2014. 12<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 22–26, Belgrade Serbia. Ž. Čupić and S. Anić (Eds.), *Proceedings Vol. I (2014)* 276–279; ISBN: 978-86-82475-30-9.
- 

- 32 M. Stanković\*, J. Krstić, V. Radonjić, D. Lončarević, **М. Gabrovska**, D. Nikolova, S. Pavlović, “Effect of nickel salts on the dispersion of nickel and reducibility of supported Ni-Mg catalyst
-

---

precursors prepared by precipitation-deposition”, PHYSICAL CHEMISTRY 2016. *of the 13<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 26–30, Belgrade Serbia. Ž. Čupić and S. Anić (Eds.), *Proceedings* Vol. I (2016) 223–226; ISBN: 978-86-82475-34-7.

---

33 S. Pavlović, B. Kostić, D. Marinković, **M. Gabrovska**, D. Nikolova, D. Lončarević, M. Stanković\*, “Structure and morphology of calcined lanthanum doped hydrotalcite”, PHYSICAL CHEMISTRY 2018. *14<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 24–28, Belgrade Serbia. Ž. Čupić and S. Anić (Eds.), *Proceedings* Vol. II (2018) 653–656; ISBN: 978-86-82475-37-8.

---

34 D. Marinković, **M. Gabrovska**, D. Nikolova, S. Pavlović, B. Milovanović, M. Stanković\*, “Synthesis and characterization of mixed oxides derivate from Li modified Mg-Al hydrotalcites”, PHYSICAL CHEMISTRY 2018, *14<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry*, September 24–28, Belgrade Serbia. Ž. Čupić and S. Anić (Eds.), *Proceedings* Vol. II (2018) 657–660; ISBN: 978-86-82475-37-8.

---

\*Кореспондирац автор