

Списък на забелязани цитати по научни трудове

Публикация:

1. Lazarova,H., Popova,M., Szegedi,A., Likozar,B., Dasireddy,V., Novak-Tusar,N., **Levulinic acid esterification on SO₃H-modified mesoporous silicas**, Bulgarian Chemical Communications 50 (H) (2018) 56-60

Цитира се в:

1. Ahmad, E., Alam, M.I., Pant, K.K., Haider, M.A., **Insights into the Synthesis of Ethyl Levulinate under Microwave and Nonmicrowave Heating Conditions**, Industrial and Engineering Chemistry Research 58 (35) (2019) 16055-16064
2. Bucchianico, D. D. M. D., Wang, Y., Buvat, Y.-C., Pan, Y., Moreno, V. C., Leveneur, S., **Production of levulinic acid and alkyl levulinates: a process insight**, Green Chem., Advance Article (2022)

Публикация:

2. Popova, M., Szegedi, Á., Lazarova, H., Ristić, A., Kalvachev, Y., Atanasova, G., Wilde, N., Tušar, N.N., Gläser, R., **Synthesis of biomass derived levulinate esters on novel sulfated Zr/KIL-2 composite catalysts**, Microporous and Mesoporous Materials 235 (2016) 1387-1811

Цитира се в:

3. Démolis, A., Eternot, M., Essayem, N., Rataboul, F., **New Insights into the Reactivity of Biomass with Butenes for the Synthesis of Butyl Levulinates**, ChemSusChem 10 (12) (2017) 2612-2617
4. Luo, YM (Luo, Yongming), Mei, ZQ (Mei, Zhanqiang), Liu, NS (Liu, Nengsheng), Wang, H (Wang, Hua), Han, CY (Han, Caiyun), He, SF (He, Sufang), **"Synthesis of mesoporous sulfated zirconia nanoparticles with high surface area and their applies for biodiesel production as effective catalysts "**, CATALYSIS TODAY 298 (SI) (2017) 99-108
5. Wang, Y (Wang, Yun), Zhang, P (Zhang, Pei), Huang, G (Huang, Gang), Yuan, QQ (Yuan, Qingqing), Guan, YJ (Guan, Yejun), Wu, P (Wu, Peng), **"Facile Synthesis of**

- Ethyl-4-ethoxy Pentanoate as a Novel Biofuel Additive Derived from gamma-Valerolactone**", ACS SUSTAINABLE CHEMISTRY & ENGINEERING 5 (8) (2017) 6645-6653
6. Kelleher, P.R., Haller, G.L., Casale, S., Méthivier, C., Thomas, C., **Assessing carbon or tungstates coverage of ZrO₂ nanoparticles supported on MWCNT via NO_x-TPD**, Nano-Structures and Nano-Objects 16 (2018) 110-119
 7. Iborra, M., Tejero, J., Fité, C., Ramírez, E., Cunill, F., **"Liquid-phase synthesis of butyl levulinate with simultaneous water removal catalyzed by acid ion exchange resins"**, Journal of Industrial and Engineering Chemistry 78 (2019) 222-231
 8. Durai, M., Durai, M., Kumaravel, S., Saravanan, A., Chinnasamy, S., Ho, C., **Efficient Conversion of Levulinic Acid to Methyl Levulinate Over SO₄²⁻/SnO₂ Nanocatalysts**, Journal of Nanoscience and Nanotechnology 21 (6) (2021) 3237-3248
 9. Ramírez, E., Bringué, R., Fité, C., Iborra, M., Tejero, J., Cunill, F., **"Assessment of ion exchange resins as catalysts for the direct transformation of fructose into butyl levulinate"**, Applied Catalysis A: General, 612 (2021) art. no. 117988

Публикация:

3. Popova, M., Szegedi, Á., Lazarova, H., Dimitrov, M., Kalvachev, Y., Atanasova, G., Ristić, A., Wilde, N., Gläser, R., **Influence of the preparation method of sulfated zirconia nanoparticles for levulinic acid esterification**, Reaction Kinetics, Mechanisms and Catalysis 120 (1) (2017) 55-67

Цитира се в:

10. Ma, Z., Meng, X., Liu, N., Yang, C., Shi, L., **Preparation, Characterization, and Isomerization Catalytic Performance of Palladium Loaded Zirconium Hydroxide/Sulfated Zirconia**, Industrial and Engineering Chemistry Research, 57 (2018) 14377-14385
11. Szabó, R., Lente, G., **Full analytical solution of a nucleation-growth type kinetic model of nanoparticle formation**, Journal of Mathematical Chemistry 57 (2) (2019) 616-631
12. Badgujar, K.C., Badgujar, V.C., Bhanage, B.M., **A review on catalytic synthesis of energy rich fuel additive levulinate compounds from biomass derived levulinic acid**, Fuel Processing Technology 197 (2020) Article number 106213
13. Hamerski, F., Dusi, G.G., Fernandes dos Santos, J.T., da Silva, V.R., Pedersen Voll, F.A., Corazza, M.L., **Esterification reaction kinetics of acetic acid and n-pentanol**

- catalyzed by sulfated zirconia**, International Journal of Chemical Kinetics 52 (8) (2020) 499-512
14. El-Desouki, D.S., Ibrahim, A.H., Abdelazim, S.M., Aboul-Gheit, N.A.K., Abdel-Hafizar, D.R., "**The optimum conditions for methanol conversion to dimethyl ether over modified sulfated zirconia catalysts prepared by different methods**", Ranliao Huaxue Xuebao/Journal of Fuel Chemistry and Technology 49 (1) (2021) 63-71
 15. Sajid, M., Farooq, U., Bary, G., Azim, M.M., Zhao, X., "**Sustainable production of levulinic acid and its derivatives for fuel additives and chemicals: Progress, challenges, and prospects**" Green Chemistry, 23 (23) (2021) 9198-9238
 16. Aziz, I. T. A., Saputri, W. D., Trisunaryanti, W., Sudiono, S., Syoufian, A., Budiman, A., Wijaya, K. "**Synthesis of Nickel-loaded Sulfated Zirconia Catalyst and Its Application for Converting Used Palm Cooking Oil to Gasoline via Hydrocracking Process**", Periodica Polytechnica Chemical Engineering, 66 (1) (2022) 101–113

Публикация:

4. Popova, M., Lazarova, H., Kalvachev, Y., Todorova, T., Szegedi, Á., Shestakova, P., Mali, G., Dasireddy, V. D. B. C., Likoazar, B., "**Zr-modified hierarchical mordenite as heterogeneous catalyst for glycerol esterification**", Catalysis Communications, 100 (2017) 10-14

Цитира се в:

17. Aghbashlo, M.; Tabatabaei, M.; Rastegari, H.; Ghaziaskar, H.; Valijanian, E.; "**Exergy-based optimization of a continuous reactor applied to produce value-added chemicals from glycerol through esterification with acetic acid**", Energy 150 (2018) 351-362
18. Chamack, M.; Mahjoub, A. ; Akbari, A.; "**Zirconium-modified mesoporous silica as an efficient catalyst for the production of fuel additives from glycerol**", Catalysis Communications, 110 (2018) 1-4
19. Diwakar, J., Viswanadham, N., Saxena, S.K., Kumar, S., Al-Muhtaseb, A.H., "**Liquid-phase solvent-less reactions for value addition of glycerol and phenols over nanoporous aluminosilicates**", Materials Today Communications 15 (2018) 260-268
20. Kurmach, M.M., Larina, O.V., Kyriienko, P.I., Yaremov, P.S., Trachevsky, V.V., Shvets, O.V., Soloviev, S.O., "**Hierarchical Zr-MTW Zeolites Doped with Copper as**

- Catalysts of Ethanol Conversion into 1, 3-Butadiene**, ChemistrySelect 3 (29) (2018) 8539-8546
21. Li, K.; Xue, W.; Zeng, Z.; Shi, X., **Kinetics of the reaction of ethanol and lauric acid catalyzed by deep eutectic solvent based on benzyltrimethylammonium chloride**, Canadian Journal of Chemical Engineering 97 (5) (2018) 1144-1151
 22. Li, Z., Miao, Z., Wang, X., Zhao, J., Zhou, J., Si, W., Zhuo, S., **One-pot synthesis of ZrMo-KIT-6 solid acid catalyst for solvent-free conversion of glycerol to solketal**, Fuel 233 (2018) 377-387
 23. Almas, Q.; Sievers, C.; Jones, C. W., **Role of mesopore generation method in structure, activity and stability of MFI catalysts in glycerol acetylation**, Applied Catalysis A: General 571 (2019) 107-117
 24. ISSA, H., **Toolbox of post-synthetic mordenite modification strategies: Impact on textural, acidic, and catalytic properties**, (2019)
 25. Jiraroj, D., Tongtootush, T., Panpranot, J., Praserttham, P., Tungasmita, D.N., **Catalytic cracking of biodieselwaste using metal supported SBA-15 mesoporous catalysts**, Catalysts 9 (3) (2019) Article number 291
 26. Keogh, J., Tiwari, M.S., Manyar, H., **Esterification of Glycerol with Acetic Acid Using Nitrogen-Based Brønsted-Acidic Ionic Liquids**, Industrial and Engineering Chemistry Research, 58 (37) (2019) 17235-17243
 27. Li, K., Xue, W., Zeng, Z., Shi, X., **Kinetics of the reaction of ethanol and lauric acid catalyzed by deep eutectic solvent based on benzyltrimethylammonium chloride**, Canadian Journal of Chemical Engineering, 97 (5) (2019) 1144-1151
 28. Marandi, A., Bahadori, M., Tangestaninejad, S., Moghadam, M., Mirkhani, V., Mohammadpoor-Baltork, I., Frohnhoven, R., Mathur, S., Sandleben, A., Klein, A., **Cycloaddition of CO₂ with epoxides and esterification reactions using the porous redox catalyst Co-POM@MIL-101(Cr)**, New Journal of Chemistry 43 (39) (2019) 15585-15595
 29. Muraza, O., **Peculiarities of glycerol conversion to chemicals over zeolite-based catalysts**, Frontiers in Chemistry (2019) Article number 233
 30. Sudarsanam, P., Peeters, E., Makshina, E.V., Parvulescu, V.I., Sels, B.F., **Advances in porous and nanoscale catalysts for viable biomass conversion**, Chemical Society Reviews 48 (8) (2019) 2366-2421
 31. Yang, L., Li, X., Chen, P., Hou, Z., **Selective oxidation of glycerol in a base-free aqueous solution: A short review**, Chinese Journal of Catalysis 40 (7) (2019) 1020-1034

32. Yang, L., Li, X., Chen, P., Hou, Z., **Selective oxidation of glycerol in a base-free aqueous solution: A short review**, Chinese Journal of Catalysis 40 (7) (2019) 1020-1034
33. Dorien Kerstens, Brent Smeyers, Jonathan Van Waeyenberg, Qiang Zhang, Jihong Yu, Bert F., Sels, **State of the art and perspectives of hierarchical zeolites: practical overview of synthesis methods and use in catalysis**, Advanced Materials 32 (44) (2020) 2004690
34. Kerstens, D., Smeyers, B., Van Waeyenberg, J., Zhang, Q., Yu, J., Sels, B.F., **State of the Art and Perspectives of Hierarchical Zeolites: Practical Overview of Synthesis Methods and Use in Catalysis**, Advanced Materials 32 (44) (2020) Article number 2004690
35. Macedo, Vinícius de, **Esterificação de glicerol com ácido benzoico sobre zeólitas H-ZSM-5 hierárquicas incorporadas com Zr ou Nb** (2020)
36. MARYAM IBRAHIM, **SYNTHESIS AND CHARACTERIZATION OF PLATINUM-ZIRCONIUM CATALYST SUPPORTED ON BICONTINUOUS LAMELLAR SILICA MORDENITE FOR n-HEXANE HYDROISOMERIZATION**, UNIVERSITI TEKNOLOGI MALAYSIA, Doctor of Philosophy (2020)
37. Tonutti, L.G., Decolatti, H.P., Querini, C.A., Dalla Costa, B.O., **Hierarchical H-ZSM-5 zeolite and sulfonic SBA-15: The properties of acidic H and behavior in acetylation and alkylation reactions**, Microporous and Mesoporous Materials 305 (2020) Article number 110284
38. Veluturla, S., Narula, A., Sathitsommon, K., Srivastava, A., Anirudh, L.V., Chauhan, S., Veeresh, V. , **STUDIES ON TRANSESTERIFICATION OF GLYCEROL TO ACETINS USING AN ECONOMICAL BASE CATALYST**, Journal of Chemical Technology and Metallurgy 55 (6) (2020) 2030-2039
39. Wang, J., Wang, A., Hu, D., Wu, X., Liu, Y., Chen, T., **Synthesis, characterization and properties of Ni²⁺-doped ZnAl₂O₄-based spinel-type solid acid catalysts: SO₄²⁻/Zn_{1-x}Ni_xAl₂O₄**, Materials Chemistry and Physics 239 (2020) Article number 122319
40. Antunes, M.M., Mendes, R.F., Paz, F.A.A., Valente, A.A., **"Versatile coordination polymer catalyst for acid reactions involving biobased heterocyclic chemicals"**, Catalysts 11 (2) (2021) art. no. 190 1-24
41. Batalha, D.C., da Silva, M.J., **"Biodiesel Production over Niobium-Containing Catalysts: A Review"**, Energies 14 (17) (2021) 5506
42. Ibrahim, M., Jalil, A.A., Zakaria, W.F.W., Fatah, N.A.A., Hamid, M.Y.S., Izan, S.M., Setiabudi, H.D., **"n-Hexane hydroisomerization over Zr-modified bicontinuous lamellar silica mordenite supported Pt as highly selective catalyst: Molecular**

hydrogen generated protonic acid sites and optimization", International Journal of Hydrogen Energy 46 (5) (2021) 4019-4035

43. Luo, W., Chen, Y., Liu, J., Yang, Y., Wang, F., Zhou, Z., "**Novel Green Method for the Synthesis of Monoacetin over Bifunctional Cu-Cr Phosphates under the CO₂ Atmosphere**", ACS Applied Materials and Interfaces, 13 (1) (2021) 341-349
44. Vasudevan, S.V., Cai, J., Bu, Q., Mao, H., "**Ordered mesoporous zirconium silicates as a catalyst for biofuel precursors synthesis**", Molecular Catalysis, 516 (2021) art. no. 112003

Публикация:

5. Popova, M., Lazarova, H., Szegedi, A., Mihályi, M.R., Rangus, M., Likožar, B., Dasireddy, V.D.B.C., "**Renewable glycerol esterification over sulfonic-modified mesoporous silicas**", Journal of the Serbian Chemical Society 83 (1) (2018) 39-50

Цитира се в:

45. Diwakar, J., Viswanadham, N., Saxena, S.K., Kumar, S., Al-Muhtaseb, A.H, "**Liquid-phase solvent-less reactions for value addition of glycerol and phenols over nano porous aluminosilicates**", Materials Today Communications 15 (2018) 260-268
46. Jaime Alfredo Mariano-Torres, Arturo López-Marure, Margarita García-Hernández, Gustavo Basurto-Islas, Miguel Ángel Domínguez-Sánchez, "**Synthesis and Characterization of Glycerol Citrate Polymer and Yttrium Oxide Nanoparticles as a Potential Antibacterial Material**", MATERIALS TRANSACTIONS 59 (12) (2018) 1915-1919
47. Thahir, R., Wahab, A.W., Nafie, N.L., Raya, I., "**Synthesis of mesoporous silica sba-15 through surfactant set-up and hydrothermal process**", Rasayan Journal of Chemistry 12 (3) (2019) 1117-1126
48. Tiong, Y.W., Yap, C.L., Gan, S., Yap, W.S.P., "**Optimisation studies on the conversion of oil palm biomass to levulinic acid and ethyl levulinate via indium trichloride-ionic liquids: A response surface methodology approach**", Industrial Crops and Products 128 (2019) 221-234
49. Babu, K.S., Rajanna, K.C., Reddy, J.N., Reddy, K.R., Rao, Y.R., "**Kinetics and mechanism of quinolinium chlorochromate mediated oxidation of sugar alcohols in Bronsted acid media**", Chemical Data Collections 25 (2020) Article number 100332

Публикация:

6. Popova, M., Shestakova, P., Lazarova, H., Dimitrov, M., Kovacheva, D., Szegedi, A., Mali, G., Dasireddy, V., Likoazar, B., Wilde, N., Gläser, R., **Efficient solid acid catalysts based on sulfated tin oxides for liquid phase esterification of levulinic acid with ethanol**, Applied Catalysis A: General 560 (2018) 119-131

Цитира се в:

50. Ahmad, E., Alam, M.I., Pant, K.K., Haider, M.A., Insights into the Synthesis of Ethyl Levulinate under Microwave and Nonmicrowave Heating Conditions, Industrial and Engineering Chemistry Research 58 (35), pp. 16055-16064, 2019, @2019 Линк 1.000
51. Alves-Rosa, M.A., Vasconcellos, J.Z., Vieira, L.H., Santilli, C.V., Pulcinelli, S.H., **Sulfated tin oxide with macro- and mesopores controlled using an integrated sol-gel and surfactant template route**, Colloids and Surfaces A: Physicochemical and Engineering Aspects 583 (2019) Article number 124012
52. Bucchianico, D. D. M. D., Wang, Y., Buvat, J.-C., Pan, Y., Moreno, V. C., Leveneur, S., **Production of levulinic acid and alkyl levulinates: a process insight**, Green Chem., Advance Article (2019)
53. Hosseini, M.-S., Masteri-Farahani, M., Surface **Functionalization of Magnetite Nanoparticles with Sulfonic Acid and Heteropoly Acid: Efficient Magnetically Recoverable Solid Acid Catalysts**, Chemistry - An Asian Journal 14 (7) (2019) 1076-1083
54. Tiong, Y.W., Yap, C.L., Gan, S., Yap, W.S.P., **Optimisation studies on the conversion of oil palm biomass to levulinic acid and ethyl levulinate via indium trichloride-ionic liquids: A response surface methodology approach**, Industrial Crops and Products 128 (2019) 221-234
55. Ahmad, E., Khan, T.S., Alam, M.I., Pant, K.K., Ali Haider, M., **Understanding reaction kinetics, deprotonation and solvation of brønsted acidic protons in heteropolyacid catalyzed synthesis of biorenewable alkyl levulinates**, Chemical Engineering Journal 400 (2020) Article number 125916
56. Alexandra Montealegre Tovar, **Esterificación catalítica de ácido levulínico (ALV) a levulinato de etilo (LE) utilizando precursores catalíticos de cobalto y etanol absoluto como reactante y disolvente** (2020)

57. Badgujar, K.C., Badgujar, V.C., Bhanage, B.M., **A review on catalytic synthesis of energy rich fuel additive levulinate compounds from biomass derived levulinic acid**, Fuel Processing Technology 197 (2020) Article number 106213
58. Halder, M., Bhanja, P., Islam, M.M., Chatterjee, S., Khan, A., Bhaumik, A., Islam, S.M., **Porous organic polymer as an efficient organocatalyst for the synthesis of biofuel ethyl levulinate**, Molecular Catalysis 494 (2020) Article number 111119
59. Huang, C.-C., Ho, S.-H., Chang, J.-S., Gao, P.-J., **A sulfated/chlorinated Sr-Fe composite oxide as a novel solid and reusable superacid catalyst for oleic acid esterification**, New Journal of Chemistry 44 (32) (2020) 13669-13684
60. Jeong, G.-T., Kim, S.-K., **Efficient conversion of glucosamine to ethyl levulinate catalyzed by methanesulfonic acid**, Korean Journal of Chemical Engineering 37 (10) (2020) 1743-1750
61. Jia, S., Ma, J., Wang, D., Wang, K., , Zheng, Q., Song, C., Guo, X., **Fast and efficient upgrading of levulinic acid into long-chain alkyl levulinate fuel additives with a tungsten salt catalyst at low temperature**, Sustainable Energy and Fuels 4 (4) (2020) 2018-2025
62. Nabihah-Fauzi, N., Asikin-Mijan, N., Ibrahim, M.L., Hashim, H., Yusup, S., Taufiq-Yap, Y.H., Mastuli, M.S., **Sulfonated SnO₂nanocatalysts: Via a self-propagating combustion method for esterification of palm fatty acid distillate**, RSC Advances 10 (49) (2020) 29187-29201
63. Pavlović, Jelena, **Synthesis and characterization of novel adsorbents and catalysts based on natural zeolite, applicable in use of biomass** (2020)
64. Wang, H., Lu, Y., Liu, H., Yin, Y., Liang, J., **Preparation and application of magnetic nano-solid acid catalyst Fe₃O₄-PDA-SO₃H**, Energies 13 (6) (2020) Article number 1484
65. Wang, J., Wang, A., Hu, D., Wu, X., Liu, Y., Chen, T. , **Synthesis, characterization and properties of Ni²⁺-doped ZnAl₂O₄-based spinel-type solid acid catalysts: SO₄²⁻/Zn_{1-x}Ni_xAl₂O₄**, Materials Chemistry and Physics 239 (2020) Article number 122319
66. Yu, P., Chen, C., Li, G., Wang, Z., Li, X., *Active, selective, and recyclable Zr(SO₄)₂/SiO₂ and Zr(SO₄)₂/activated carbon solid acid catalysts for esterification of malic acid to dimethyl malate*, Catalysts 10 (4) (2020) Article number 384
67. Yue, X., Chen, D., Luo, J., Xin, Q., Huang, Z., **Upgrading of reed pyrolysis oil by using its biochar-based catalytic esterification and the influence of reed sources**, Applied Energy 268 (2020) Article number 114970

68. Zhang, Q., Jiang, P., Nie, Z., Zhang, P., **Acidic ion functionalized N-doped hollow carbon for esterification of levulinic acid**, *New Journal of Chemistry* 44 (4) (2020) 1588-1593
69. Abo El-Yazeed, W.S., Eladl, M., Ahmed, A.I., Ibrahim, A.A., **"Sulfamic acid incorporated tin oxide: Acidity and activity relationship"**, *Journal of Alloys and Compounds* 858 (2021) art. no. 158192
70. Fuchineco, D. A. B., Heredia, A. C., Mendoza, S. M., Rodríguez-Castellón, E., Crivello, M. E., **Synthesis, Characterization and Catalytic Activity of UiO-66-NH₂ in the Esterification of Levulinic Acid**, *Appl. Nano* 2(4) (2021) 344-358
71. Li, Y., Tang, X., Niu, S., Wang, Y., Han, K., Lu, C., **"Synthesis of the zirconium dioxide activated carbon-based heterogeneous acid catalyst to catalyze esterification for biodiesel production with molecular simulation"**, *Biomass Conversion and Biorefinery* (2021)
72. Liu, L., Pu, Y., Lu, Y., Li, N., Hu, Z., Chen, S., **"Superacid sulfated SnO₂ doped with CeO₂: A novel inorganic filler to simultaneously enhance conductivity and stabilities of proton exchange membrane"**, *Journal of Membrane Science* 621 (2021) art. no. 118972
73. Sajid, M., Farooq, U., Bary, G., Azime, M.M., Zhao, X., **"Sustainable production of levulinic acid and its derivatives for fuel additives and chemicals: progress, challenges, and prospects"**, *Green Chem.* 23 (2021) 9198-9238
74. Tian, Y., Zhang, F., Wang, J., Cao, L., Han, Q., **"A review on solid acid catalysis for sustainable production of levulinic acid and levulinate esters from biomass derivatives"**, *Bioresource Technology* 342 (2021) art. no. 125977
75. Zheng Y., Zhao Y., Tao S., Li X., Cheng X., Jiang G., Wan X., **"Green Esterification of Carboxylic Acids Promoted by tert-Butyl Nitrite"**, *European Journal of Organic Chemistry* 18 (2021) 2713 - 2718
76. Ristiana, D. D., Suyanta, S., Nuryono, N., **Simple One-Pot Synthesis of Sulfonic-Acid-Functionalized Silica for Effective Catalytic Esterification of Levulinic Acid**, *Indones. J. Chem.* 22 (2022)