

Сведения, характеризующие научную ценность научных трудов, представленных для премии, присуждаемой Санкт-Петербургским государственным университетом за научные труды, в категории за вклад в науку молодых ученых.

Название цикла работ: «Реакционно-массообменные процессы и совмещенные равновесия в системах, образованных компонентами биотоплива: термодинамическое исследование и топология фазовых диаграмм»

1. Trofimova M. A., Sadaev A.A., Samarov A.A. ,Toikka M.A, Toikka A.M. Solubility, liquid-liquid equilibrium and critical states for the quaternary system formic acid - ethanol - ethyl formate - water at 298.15 K and 308.15 K, Fluid Phase Equilibria, Vol. 485, P. 111-119, 2018
DOI: 10.1016/j.fluid.2018.12.024
Количество цитирований: 1 (WOS), 2 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.28**.
SJR: **0.864**. SNIP: **1.174. (Q1)**
2. Samarov A. A., Smirnov, M. A., Sokolova, M. P., Toikka A. M. Liquid-Liquid Equilibrium Data for the System N-Octane plus Toluene + DES at 293.15 and 313.15 K and Atmospheric Pressure, Theoretical Foundations of Chemical Engineerin G, Vol. 52, P. 258-263 , 2018
DOI: 10.1134/S0040579518020148
Количество цитирований: 2 (WOS), 2 (Scopus)
Impact factor(2018): **0.520**. Impact factor(5 лет): **0.584**.
SJR: **0.308**. SNIP: **0.813. (Q4)**
3. Toikka M. A, Trofimova D. V., Samarov A. A. Liquid-liquid equilibrium and critical states for the quaternary system propionic acid-n-butanol-n-butyl propionate-water at 303.15 K, Fluid Phase Equilibria, Vol. 460, P. 17-22, 2018
DOI: 10.1016/j.fluid.2017.12.023
Количество цитирований: 5 (WOS), 5 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.28**.
SJR: **0.864**. SNIP: **1.174. (Q1)**
4. Samarov A.A., Smirnov M.A., Toikka A.M., Prildiodko I.V. Study of Deep Eutectic Solvent on the Base Choline Chloride as Entrainer for the Separation Alcohol-Ester Systems, Journal of Chemical and Engineering Data, Vol. 63, P. 1877-1884, 2018
DOI: 10.1021/acs.jced.7b00912
Количество цитирований: 1 (WOS), 1 (Scopus)
Impact factor(2018): **2.298**. Impact factor(5 лет): **2.328**.
SJR: **0.767**. SNIP: **1.046. (Q2)**

5. Ivan A. Rodionov, Elizaveta V. Mechtaeva, Alena A. Burovikhina, Oleg I. Silyukov, Maria A. Toikka, Irina A. Zvereva. Effect of protonation on the photocatalytic activity of the K₂La₂Ti₃O₁₀ layered oxide in the reaction of hydrogen production, Monatshefte für Chemie 149 (2018) P. 475–482.
DOI:10.1007/s00706-017-2105-7
Количество цитирований: 3 (WOS), 3 (Scopus)
Impact factor(2018): **1.501**. Impact factor(5 лет): **1.35**.
SJR: **0.544**. SNIP: **0.337. (Q3)**
6. Toikka M.A, Vernadskaya V. A, Samarov A.A. Solubility, liquid-liquid equilibrium and critical states for quaternary system acetic acid - n-amyl alcohol - n-amyl acetate - water at 303.15 K and atmospheric pressure, Fluid Phase Equilibria, Vol. 471, P. 68-73, 2018
DOI: 10.1016/j.fluid.2018.05.009
Количество цитирований: 3 (WOS), 3 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.28**.
SJR: **0.864**. SNIP: **1.174. (Q1)**
7. Sokolova M.P. , Smirnov M.A. , Samarov A.A. , Bobrova N.V. , Vorobiov V.K. , Popova E.N., Filippova E. , Geydt P. , Lahderanta E. , Toikka A.M. Plasticizing of chitosan films with deep eutectic mixture of malonic acid and choline chloride, Carbohydrate Polymers, Vol. 197, P. 548-557, 2018
DOI: 10.1016/j.carbpol.2018.06.037
Количество цитирований: 5 (WOS), 4 (Scopus)
Impact factor(2018): **6.044**. Impact factor(5 лет): **5.975**.
SJR: **1.377**. SNIP: **1.720. (Q1)**
8. Alexandra Golikova, Nikita Tsvetov, Anufrikov Yuri, Maria Toikka, Zvereva Irina, Alexander Toikka. Excess enthalpies of the reactive system ethanol + acetic acid + ethyl acetate + water for chemically equilibrium states at 313.15 K, Journal of Thermal Analysis and Calorimetry, 2018, Vol. 134, I. 1, P. 835 – 841,
DOI: 10.1007/s10973-018-7010-8
Количество цитирований: 0 (WOS), 1 (Scopus)
Impact factor(2018): **2.471**. Impact factor(5 лет): **2.084**.
SJR: **0.634**. SNIP: **1.063. (Q2)**
9. Alexander V. Fonin, Alexandra D. Golikova, Irina A. Zvereva, Sabato D'Auria, Maria Staiano, Vladimir N. Uversky, Irina M. Kuznetsova, Konstantin K. Turoverov. Osmolyte-Like Stabilizing Effects of Low GdnHCl Concentrations on d-Glucose/d-Galactose-Binding Protein, International Journal of Molecular Sciences, 2017., Vol. 18, I. 9, P. 2008 – 2028,
DOI: 10.3390/ijms18092008

Количество цитирований: 0 (WOS), 0 (Scopus)
Impact factor(2017): **4.183**. Impact factor(5 лет): **4.331**.
SJR: **1.312**. SNIP: **1.224. (Q2)**

10. Maria Toikka, Anna Sadaeva, Artemiy Samarov, Alexandra Golikova, Maya Trofimova, Nataliya Shcherbakova, Alexander Toikka. Chemical equilibrium for the reactive system propionic acid + ethanol + ethyl propionate + water at 303.15 and 313.15 K, Fluid Phase Equilibria, 2017., Vol. 451, P. 91-95, doi: 10.1016/j.fluid.2017.08.010

Количество цитирований: 2 (WOS), 2 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.
SJR: **0.864**. SNIP: **1.174. (Q1)**

11. Alexandra Golikova, Artemiy Samarov, Maya Trofimova, Sevastyan Rabdano, Maria Toikka, Oleg Pervukhin, Alexander Toikka. Chemical Equilibrium for the Reacting System Acetic Acid–Ethanol–Ethyl Acetate–Water at 303.15 K, 313.15 K and 323.15 K, Journal of solution chemistry, 2017., Vol. 46, P. 374-387, doi: 10.1007/s10953-017-0583-1

Количество цитирований: 4 (WOS), 5 (Scopus)
Impact factor(2018): **1.039**. Impact factor(5 лет): **1.215**.
SJR: **0.349**. SNIP: **0.542. (Q4)**

12. Samarov, A.A., Smirnov, M.A., Sokolova, M.P., Popova, E.N., Toikka, A.M. Choline chloride based deep eutectic solvents as extraction media for separation of n-hexane–ethanol mixture // Fluid Phase Equilibria. 2017. V. 448. P. 123-127.

DOI 10.1016/j.fluid.2017.03.029

Количество цитирований: 12 (WOS), 12 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.
SJR: **0.864**. SNIP: **1.174. (Q1)**

13. Samarov A., Toikka M., Trofimova M., Toikka A. Liquid-liquid equilibrium for the quaternary system propionic acid + n-propanol + n-propyl propionate + water at 293.15, 313.15 and 333.15 K // Fluid Phase Equilibria. 2016. T. 425. C. 183-187.

DOI 10.1016/j.fluid.2016.05.033

Количество цитирований: 5 (WOS), 5 (Scopus)
Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.
SJR: **0.864**. SNIP: **1.174. (Q1)**

14. Samarov A.A., Toikka M.A., Naumkin P.V., Toikka, A.M. Chemical equilibrium and liquid-phase splitting in acetic acid + n-propanol + n-propyl acetate + water system at 293.15 and 353.15 K // Theoretical Foundations of Chemical Engineering. 2016. T. 50. C. 739-745.

DOI: 10.1134/S0040579516050377

Количество цитирований: 4 (WOS), 4 (Scopus)
Impact factor(2017): **0.520**. Impact factor(5 лет): **0.584**.
SJR: **0.308**. SNIP: **0.813. (Q4)**

15.Samarov A.A., Naumkin P.V., Toikka M.A., Toikka A.M. Chemical equilibrium and liquid-liquid equilibrium for the system acetic acid - N-butanol - N-butyl acetate – Water // 22nd International Congress of Chemical and Process Engineering, CHISA 2016 and 19th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2016, 1, P. 727.

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<https://proxy.library.spbu.ru:2090/record/display.uri?eid=2-s2.0-85050745468&origin=resultslist&sort=plf-f&src=s&st1=Chemical+equilibrium+and+liquid-liquid+equilibrium+for+the+system+acetic+acid+-+N-butanol+-+N-butyl+acetate+-+Water+&st2=&sid=06f2b462b82e2ff5e69963f82d7eb4a7&sot=b&sdt=b&sl=132&s=TITLE-ABS-KEY%28Chemical+equilibrium+and+liquid-liquid+equilibrium+for+the+system+acetic+acid+-+N-butanol+-+N-butyl+acetate+-+Water+%29&relpos=0&citeCnt=0&searchTerm=>

16.Artemiy Samarov, Pavel Naumkin, Alexander Toikka. Chemical equilibrium for the reactive system acetic acid + n-butanol + n-butyl acetate + water at 308.15 K // Fluid Phase Equilibria, 2015 Vol. 403, P. 10-13

DOI: 10.1016/j.fluid.2015.06.001

Количество цитирований: 3 (WOS), 3 (Scopus)

Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.

SJR: **0.864**. SNIP: **1.174. (Q1)**

17.A.M. Toikka, A.A. Samarov, M.A. Toikka. Phase and chemical equilibria in multicomponent fluid systems with a chemical reaction // Russian Chemical Reviews. 84 (4). 2015. pp. 378-392.

DOI 10.1070/RCR4515

Количество цитирований: 8 (WOS), 8 (Scopus)

Impact factor(2018): **4.612**. Impact factor(5 лет): **4.263**.

SJR: **0.868**. SNIP: **2.168. (Q1)**

18.Artemiy Samarov, Maria Toikka, Alexander Toikka. Liquid–liquid equilibrium and critical states for the system acetic acid + n-butanol + n-butyl acetate + water at 308.15 K // Fluid Phase Equilibria. Volume 385, 2015, pp. 129–133.

DOI:10.1016/j.fluid.2014.11.004

Количество цитирований: 10 (WOS), 11 (Scopus)

Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.

SJR: 0.864. SNIP: 1.174. (Q1)

19. Maria Toikka, Artemiy Samarov, Maya Trofimova, Alexandra Golikova, Nikita Tsvetov, Alexander Toikka. Solubility, liquid–liquid equilibrium and critical states for the quaternary system acetic acid–ethanol–ethyl acetate–water at 303.15 K and 313.15 K, *Fluid Phase Equilibria*, 2014., Vol. 373, P. 72-79,
doi: 10.1016/j.fluid.2014.04.013

Количество цитирований: 17 (WOS), 16 (Scopus)

Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.

SJR: 0.864. SNIP: 1.174. (Q1)

20. Maria Toikka, Artemiy Samarov, Alexander Toikka. Solubility, liquid–liquid equilibrium and critical states for the system acetic acid + n-propanol + n-propyl acetate + water at 293.15 K and 303.15 K // *Fluid Phase Equilibria*, 2014. Vol. 375, P. 66-72.

DOI: 10.1016/j.fluid.2014.04.034

Количество цитирований: 12 (WOS), 13 (Scopus)

Impact factor(2018): **2.514**. Impact factor(5 лет): **2.280**.

SJR: 0.864. SNIP: 1.174. (Q1)