

Prof. dr. Branko Matović

List of publications (by category)

M21a - International Journal of Outstanding Values

1. Milićević, J.S., Randelović, M.S., Momčilović, M.Z., Zarubica, A.R., Mofarah, S.S., **Matović, B.**, Sorrel, C. C., *Multiwalled carbon nanotubes modified with MoO₂ nanoparticles for voltammetric determination of the pesticide oxyfluorfen*, *Microchimica Acta* 152, 104429, IF. 6.23, 10.1007/s00604-020-04406-4
2. **Matovic, B.**, Maletaskic, J., Zagorac, J., Pavkov, V., Maki, R.S.S., Yoshida, K., Yano, T., *Synthesis and characterization of pyrochlore lanthanide (Pr, Sm) zirconate ceramics*, *Journal of the European Ceramic Society* 40 (7), 2652-2657, (2020), IF. 4.49, 10.1016/j.jeurceramsoc.2019.11.012
3. Ilić, S., Babić, B., Bjelajac, A., Stoimenov, N., Kljajević, L., Pošarac–Marković, M., **Matović, B.**, *Structural and morphological characterization of iron-doped sol-gel derived mullite powders*, *Ceramics International* 46 (9), 13107-13113 (2020), IF. 3.83, 10.1016/j.ceramint.2020.02.083
4. **Matovic, B.**, Butulija, S., Dohcevic-Mitrovic, Z., Arsic, T.M., Lukovic, J., Boskovic, S., Maletaskic, J., *Synthesis, densification and characterization of Ag doped ceria nanopowders*, *Journal of the European Ceramic Society* 40 (5), 1983-1988, (2020), IF. 4.49, 10.1016/j.jeurceramsoc.2020.01.013
5. Zagorac, D., Zagorac, J., Schön, J.C., Stojanović, N., **Matović, B.**, *ZnO/ZnS (hetero)structures: ab initio investigations of polytypic behavior of mixed ZnO and ZnS compounds*, *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials* 74 (6), 628-642, (2018), IF. 6.732, 10.1107/S2052520618014099
6. Zmejkoski, D., Spasojević, D., Orlovska, I., Kozyrovska, N., Soković, M., Glamočlija, J., Dmitrović, S., **Matović, B.**, Tasić, N., Maksimović, V., Sosnin, M., Radotić, K., *Bacterial cellulose-lignin composite hydrogel as a promising agent in chronic wound healing*, *International Journal of Biological Macromolecules* 118, 494-503, (2018) IF. 4.784, 10.1016/j.ijbiomac.2018.06.067
7. **Matovic, B.**, Maletaskic, J., Bucevac, D., Zagorac, J., Fajar, M., Yoshida, K., Yano, T., *Synthesis, characterization and sintering of Gd₂Hf₂O₇ powders synthesized by solid state displacement reaction at low temperature*, *Ceramics International* 44 (14), 16972-16976, (2018), IF. 3.450, 10.1016/j.ceramint.2018.06.138

8. Prekajski Đorđević, M., Maletaškić, J., Stanković, N., Babić, B., Yoshida, K., Yano, T., **Matović, B.**, *In-situ immobilization of Sr radioactive isotope using nanocrystalline hydroxyapatite*, *Ceramics International* 44 (2), 1771-1777, (2018), IF. 3.450
9. Stojadinović, B., Dohčević-Mitrović, Z., Stepanenko, D., Rosić, M., Petronijević, I., Tasić, N., Ilić, N., **Matović, B.**, Stojanović, B., *Dielectric and ferroelectric properties of Ho-doped BiFeO₃ nanopowders across the structural phase transition*, *Ceramics International* 43 (18), 16531-16538, (2017), IF. 3.057, 10.1016/j.ceramint.2017.09.038
10. Kostoglou, N., Koczwar, C., Prehal, C., Terziyska, V., Babic, B., **Matovic, B.**, Constantinides, G., Tampaxis, C., Charalambopoulou, G., Steriotis, T., Hinder, S., Baker, M., Polychronopoulou, K., Doumanidis, C., Paris, O., Mitterer, C., Rebholz, C., *Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage*, *Nano Energy* 40, 49-64, (2017), IF. 13.619, 10.1016/j.nanoen.2017.07.056
11. Zagorac, D., Doll, K., Zagorac, J., Jordanov, D., **Matović, B.**, *Barium Sulfide under Pressure: Discovery of Metastable Polymorphs and Investigation of Electronic Properties on ab Initio Level*, *Inorganic Chemistry* 56 (17), 10644-10654, (2017), IF. 4.857, 10.1021/acs.inorgchem.7b01617
12. **Matovic, B.**, Maletaskic, J., Djordjevic, M.P., Maksimovic, V., Zagorac, J., Yoshida, K., Yano, T., *Synthesis and characterization of nanometric gadolinia powders by room temperature solid-state displacement reaction and low temperature calcination*, *Journal of the European Ceramic Society* 37 (8), 2843-2848, (2017), IF. 3.794, 10.1016/j.jeurceramsoc.2017.03.004
13. Bucevac, D., Maletaskic, J., Omerasevic, M., **Matovic, B.**, Wang, C.-A., *Porous acicular mullite ceramics fabricated with in situ formed soot oxidation catalyst obtained from waste MoSi₂*, *Ceramics International* 43 (13), 9815-9822, (2017), IF. 3.057, 10.1016/j.ceramint.2017.04.161
14. **Matović, B.**, Prekajski, M., Pantić, J., Bräuniger, T., Rosić, M., Zagorac, D., Milivojević, D., *Synthesis and densification of single-phase mayenite (C12A7)*, *Journal of the European Ceramic Society* 36 (16), 4237-4241, (2016), IF. 3.454, 10.1016/j.jeurceramsoc.2016.06.014
15. **Matović, B.**, Luković, J., Nikolić, M., Babić, B., Stanković, N., Jokić, B., Jelenković, B., *Synthesis and characterization of nanocrystalline hexagonal boron nitride powders: XRD and luminescence properties*, *Ceramics International* 42 (15), 16655-16658, (2016), IF. 2.986, 10.1016/j.ceramint.2016.07.096
16. Rosić, M., Zagorac, D., Milivojević, D., Paunović, N., Zagorac, J., Dohčević-Mitrović, Z., **Matović, B.**, *Theoretical and experimental study of octahedral tilting of Ca_{1-x}Gd_xMnO₃ (x =*

0.05, 0.1, 0.15, 0.2) nanometric powders, Journal of Alloys and Compounds 678, 219-227, (2016), IF. 3.133, 10.1016/j.jallcom.2016.03.173

17. **Matović, B.**, Bučevac, D., Urbanović, V., Stanković, N., Daneu, N., Volkov-Husović, T., Babić, B., *Monolithic nanocrystalline SiC ceramics*, Journal of the European Ceramic Society 36 (12), 3005-3010, (2016), IF. 3.454, 10.1016/j.jeurceramsoc.2015.10.031

18. Babić, B., Zarubica, A., Arsić, T.M., Pantić, J., Jokić, B., Abazović, N., **Matović, B.**, *Iron doped anatase for application in photocatalysis*, Journal of the European Ceramic Society 36 (12), 2991-2996, (2016), IF. 3.454, 10.1016/j.jeurceramsoc.2015.11.031

19. Prekajski, M., Mirković, M., Todorović, B., Matković, A., Marinović-Cincović, M., Luković, J., **Matović, B.**, *Ouzo effect-New simple nanoemulsion method for synthesis of strontium hydroxyapatite nanospheres*, Journal of the European Ceramic Society 36 (5), 1293-1298, (2016), IF. 3.454, 10.1016/j.jeurceramsoc.2015.11.045

20. Kokunešoski, M., Šaponjić, A., Stanković, M., Majstorović, J., Egelja, A., Ilić, S., **Matović, B.**, *Effect of boric acid on the porosity of clay and diatomite monoliths*, Ceramics International 36 (5), 1293-1298, (2016), IF. 2.986, 10.1016/j.jeurceramsoc.2015.11.045

21. Ilić, S., Zec, S., Rosić, M., Maksimović, V., Ružić, J., Urbanovich, V., **Matović, B.**, *High pressure densification of nanocrystalline mullite powder*, Ceramics International 42 (4), 5319-5325, (2016), IF. 2.986, 10.1016/j.ceramint.2015.12.062

22. Prekajski, M., Zarubica, A., Babić, B., Jokić, B., Pantić, J., Luković, J., **Matović, B.**, *Synthesis and characterization of Cr³⁺ doped TiO₂ nanometric powders*, Ceramics International 42 (1), 1862-1869, (2016), IF. 2.986, 10.1016/j.ceramint.2015.09.151

23. **Matovic, B.**, Pantic, J., Lukovic, J., Cebela, M., Dmitrovic, S., Mirkovic, M., Prekajski, M., *A novel reduction-oxidation synthetic route for hafnia*, Ceramics International 42 (1), 615-620, (2016), IF. 2.986, 10.1016/j.ceramint.2015.08.155

24. Purenović, J.M., Randjelović, M.S., **Matović, B.Z.**, Purenović, M.M., *Application of Minkowski layer for intergranular fractal surfaces of multiphase active microalloyed and alloyed aluminium-silicate ceramics*, Applied Surface Science 332, 440-455, IF. 3.150, 10.1016/j.apsusc.2015.01.162

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27. Randjelovic, M.S., Purenovic, M.M., **Matovic, B.Z.**, Zarubica, A.R., Momčilovic, M.Z., Purenovic, J.M., *Structural, textural and adsorption characteristics of bentonite-based composite*, Microporous and Mesoporous Materials 40 (2), 3699-3705, (2014), IF. 3.453, 10.1016/j.micromeso.2014.03.031
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30. Pantic, J., Prekajski, M., Dramićanin, M., Abazovic, N., Vukovic, N., Kremenović, A., **Matovic, B.**, *Preparation and characterization of chrome doped sphene pigments prepared via precursor mechanochemical activation*, Journal of Alloys and Compounds 579, 290-294, (2013), IF. 2.726, 10.1016/j.jallcom.2013.06.046
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37. Kljajević, L.J., **Matović, B.**, Radosavljević-Mihajlović, A., Rosić, M., Bosković, S., Devečerski, A., *Preparation of ZrO₂ and ZrO₂/SiC powders by carbothermal reduction of ZrSiO₄*, Journal of Alloys and Compounds 509 (5), 2203-2215, (2011), IF. 2.28, 10.1016/j.jallcom.2010.11.002

38. Bucevac, D., **Matovic, B.**, Boskovic, S., Zec, S., Krstic, V., *Pressureless sintering of internally synthesized SiC-TiB₂ composites with improved fracture strength*, Journal of Alloys and Compounds 509 (3), 990-996, (2011), IF. 2.28, 10.1016/j.jallcom.2010.09.152

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47. **Matovic, B.**, Rixecker, G., Aldinger, F., *Densification of Si₃N₄ with LiYO₂ additive*, Journal of the American Ceramic Society 87 (4), 546-549, (2004), IF. 1.71, 10.1111/j.1551-2916.2004.00546.x
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49. Subasri, R., **Matovic, B.**, Näfe, H., Aldinger, F., *A low cost synthesis process for vitreous NaAlSi₃O₈ using sodium zeolite*, Journal of Non-Crystalline Solids 331, 177-183, (2003), IF. 1.56, 10.1016/j.jnoncrysol.2003.08.067
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2. Ilić, S., Ivanovski, V.N., Radovanović, Ž., Egelja, A., Kokunešoski, M., Šaponjić, A., **Matović, B.**, *Structural, microstructural and mechanical properties of sintered iron-doped mullite*, Materials Science and Engineering B: Solid-State Materials for Advanced Technology 256, 114543, (2020) IF. 4.70, 10.1016/j.mseb.2020.114543
3. Mirković, M., Dosen, A., Erić, S., Vulić, P., **Matović, B.**, Rosić, A., *Phase and microstructural study of urinary stones*, Microchemical Journal 152, 104429 (2020) IF. 3.59, 10.1016/j.microc.2019.104429
4. Hadzic, B., **Matovic, B.**, Randjelovic, M., Kostic, R., Romcevic, M., Trajic, J., Paunovic, N., Romcevic, N., *Phonons investigation of ZnO@ZnS core-shell nanostructures with active layer*, Journal of Raman Spectroscopy 1-10, (2020), IF. 2.809 , 10.1002/jrs.6058

5. Zagorac, D., Zagorac, J., Djukic, M.B., Jordanov, D., **Matović, B.**, *Theoretical study of AlN mechanical behaviour under high pressure regime*, Theoretical and Applied Fracture Mechanics 103, 102289, (2019), IF. 3.204, 10.1016/j.tafmec.2019.102289
6. Todorović, B.Ž., Stojiljković, D.T., Pantić, T.P., **Matović, B.**, Djordjević, M.P., Petrović, S.M., Stojiljković, M.S., Stevanović, M.M., *Direct Formation of Burkeite in the Geothermal Waters at Vranjska Banja, Serbia*, Natural Resources Research 28 (4), 1259-1267, (2019), IF. 3.708, 10.1007/s11053-019-09455-y
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8. Luković, J., Milovanović, D., Kumar, R., Kijevčanin, M., Radović, I., **Matović, B.**, Volkov-Husović, T., *Synthesis and characterization of porous tungsten carbide with added tungsten silicides*, International Journal of Refractory Metals and Hard Materials 72, 9-14, (2018), IF. 2.907, 10.1016/j.ijrmhm.2017.12.001
9. Rosić, M., Zarubica, A., Šaponjić, A., Babić, B., Zagorac, J., Jordanov, D., **Matović, B.**, *Structural and photocatalytic examination of CoMoO₄ nanopowders synthesized by GNP method*, Materials Research Bulletin 98, 111-120, (2018), IF. 3.355, 10.1016/j.materresbull.2017.10.015
10. Zagorac, J., Zagorac, D., Rosić, M., Schön, J.C., **Matović, B.**, *Structure prediction of aluminum nitride combining data mining and quantum mechanics*, CrystEngComm 43 (13), 9815-9822, (2017), IF. 3.474, 10.1039/c7ce01039g
11. Kostoglou, N., Lukovic, J., Babic, B., **Matovic, B.**, Photiou, D., Constantinides, G., Polychronopoulou, K., Ryzhkov, V., Grossmann, B., Mitterer, C., Rebholz, C., *Few-step synthesis, thermal purification and structural characterization of porous boron nitride nanoplatelets*, Materials and Design 110, 540-548, (2016), IF. 4.498, 10.1016/j.matdes.2016.08.011
12. Kovačević, A., Ristić-Djurović, J.L., Lekić, M., Hadžić, B., Abudagel, G.S.I., Petričević, S., Mihailović, P., **Matović, B.**, Dramlić, D., Brajović, L.M., Romčević, N., *Influence of femtosecond pulsed laser irradiation on bismuth germanium oxide single crystal properties*, Materials Research Bulletin 83, 284-289, (2016), IF. 2.435, 10.1016/j.materresbull.2016.06.023
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18. Rosić, M., Kljaljević, L., Jordanov, D., Stoilković, M., Kusigerski, V., Spasojević, V., **Matović, B.**, *Effects of sintering on the structural, microstructural and magnetic properties of nanoparticle manganite Ca_{1-x}Gd_xMnO₃ (x=0.05, 0.1, 0.15, 0.2)*, Ceramics International 41 (10), 14964-14972, IF. 2.758, 10.1016/j.ceramint.2015.08.041
19. Rancrossed D Signelović, M., Momčilović, M., **Matović, B.**, Babić, B., Barek, J., *Cyclic voltammetry as a tool for model testing of catalytic Pt- and Ag-doped carbon microspheres*, Journal of Electroanalytical Chemistry 757, 176-182, (2015), IF. 2.822, 10.1016/j.jelechem.2015.09.035
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