

**СПИСЪК**  
на научните публикации на  
доц. д-р инж. **СТОЯН ПЕТРОВ ДЖАМБАЗОВ**

**I. Научни публикации на доц. д-р инж. Стоян Петров Джамбазов представени при участие в конкурса за „доцент”.**

**I.1. Публикации по дисертационната работа на тема: „Керамичен материал на основа алуминиев титанат – получаване и свойства”, София, ВХТИ, 1990, за присъждане на научната степен „доктор”.**

1. Y. Dimitriev, E. Kashchieva, Y. Ivanova, St. Djambazov, "Glass formation and immiscibility in the  $\text{TeO}_2 - \text{B}_2\text{O}_3 - \text{Fe}_2\text{O}_3 - \text{MnO}$ , *J. Mater. Sci.*, 21, 1986, 3033-3037. IF 0,98
2. Ст. Джамбазов, Я. Димитриев, Д. Лепкова, "Изследване върху получаването на  $\text{Al}_2\text{TiO}_5$  по хетерофазен метод", *Сборник трудове от Трета национална младежка школа с международно участие "Нови Материали и Технологии"*, 3-8 септември 1988, Варна, България, 136-139.
3. Ст. Джамбазов, Д. Лепкова, Е. Гатев, Ст. Койчев, "Разлагане на алуминиев титанат", *Сборник трудове от Трета национална младежка школа и научен симпозиум "Нови силикатни материали"*, 30.05 – 03.06.1988, Несебър, България, 155-163.
4. Y. Dimitriev, D. Lepkova, E. Gatteff, St. Djambazov, "Superconducting and magnetic properties of Y – Ba – Cu – Ag – O system", *ISCMP, Proc. of the 15th Intern. School on Condensed Matter Physics, Disordered Systems and New Materials*, Varna, Bulgaria, 19-27 Sept. 1988, 841-849.

5. Е. Гатев, Ст. Джамбазов, Д. Лепкова, Ст. Койчев, "Изследване разлагането на  $\text{Al}_2\text{TiO}_5$  с количествен рентгенофазов анализ", *Сборник трудове от 4-ти Национален Симпозиум "Рентгенови дифракционни методи"*, 28-31 май, Несебър, България, 1989, Сборник, 211-214.

**I.2. Публикации в международни специализирани научни списания и в списания с импакт фактор.**

6. B. Samuneva, St. Djambazov, D. Lepkova, Y. Dimitriev, "Sol-gel Synthesis of  $\text{BaTiO}_3$  and  $\text{Ba}_{1-x-y}\text{Ca}_y\text{Sr}_x(\text{Zr}_y\text{Ti}_{1-y})\text{O}_3$  perovskite powders", *Ceramics International*, 16, 1990, 355-360. IF 0,5
7. E. Vlahov, V. Kovachev, M. Polak, M. Majoros, Y. Dimitriev, St. Djambazov, E. Kashchieva, A. Staneva, "The influence of Ag and Te additions on the magnetization of hollow cylinder shaped YBCO ceramics", *Physica, C 175*, 1991, 335-341.
8. Е. Бекярова, Г. Шопов, Д. Самналиев, Ст. Джамбазов, "Гуматы натрия как активатор для повышения прочности каолина", *Биологические науки*, №10, 1991, 95-97.
9. Y. Dimitriev, E. Kashchieva, P. Hinkov, E. Gatteff, St. Djambazov, A. Staneva, E. Vlahov, "Microstructure and phase formation of ceramics from the Nd – Ba – Cu – Ag – O system", *J. Mater. Sci. Lett.*, 11, 1992, 111-113. IF 0,511
10. D. Lepkova, St. Djambazov, L. Pavlova, "Preparation and properties of cordierite-tialite ceramics", *Interceram*, vol. 43, 4, 1994, 246-247.
11. St. Djambazov, D. Lepkova, I. Ivanov, "A study of the stabilization of aluminium titanate", *Journal of Materials Science*, 29, 1994, 2521-2525. IF 0,741
12. E. Kashchieva, Y. Dimitriev, M. Bursukova, St. Djambazov, "Microstructure of glasses and glass-ceramics in the  $\text{TeO}_2 - \text{B}_2\text{O}_3 - \text{GeO}_2$  system", *Bol. Soc. Esp. Ceram. Vidrio*, 35, 2, 1996, 117-120.

13. St. Djambazov, Y. Ivanova, A. Yoleva, N. Nedelchev, "Ceramic pigments on the base of the CoO – ZnO – SiO<sub>2</sub> system obtained by a sol-gel method", *Ceramics International*, 24, 1998, 281-284. IF 0,383

**I.3. Публикации от международни конференции, отпечатани в пълен текст  
в сборници с редактор**

14. R. Dimitrov, St. Djambazov, "Obtaining of biscuit body for wall tiles on caolin sand bases", *Proc. II World Congress on Ceramic Tile Quality, QUALICER' 92*, Castellon, Spain, 1992, 205-212.
15. F. Franzoni, St. Djambazov, "Ceramic frit production automatic and semi-automatic instalations standards for selecting the plant", *Proc. of the 11<sup>th</sup> Conference on glass and ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, Varna, 25-27 Oct., 1993, 390-400.
16. D. Lepkova, L. Pavlova, St. Djambazov, "Cordierite-mullite refractory materials for firing of faience tiles in tunnel kilns", *Proc. 11<sup>th</sup> Conference on glass and ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, Varna, 25-27 Oct., 1993, 416-423.
17. D. Lepkova, St. Djambazov, L. Pavlova, I. Ivanov, "Obtaining and properties of cordierite-tialite composite material", *Proc. 11<sup>th</sup> Conference on glass and ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, Varna, 25-27 Oct., 1993, 357- 360.
18. Y. Dimitriev, E. Gatteff, St. Djambazov, A. Staneva, "Influence of Te and Ag additions on the synthesis of high Tc superconductors", *THIRD EURO CERAMICS*, vol. 3, Faenca Editrice Iberica, Spain, 1993, 589- 592.
19. St. Djambazov, D. Lepkova, "Synthesis and properties of Al<sub>2</sub>TiO<sub>5</sub> ceramics", *THIRD EURO CERAMICS*, vol. 3, Faenca Editrice Iberica, Spain, 1993, 1013-1018.

20. St. Djambazov, R. Nikolov, A. Deredjan, Y. Ivanova, Y. Dimitriev, E. Kashchieva, "Ceramic pigments on the base of cobaltous silicate obtained by sol-gel method", **Proc. III Word Congress on Ceramic Tile Quality, QUALICER' 94**, Castellon., Spain, 1994, 117-124.
21. Y. Dimitriev, E. Gatteff, E. Vlahov, A. Staneva, St. Djambazov, "High Tc superconducting ceramics with additives", **II Intern. Ceram. Congress**, vol. 2, Traditional ceramics, Turkey, 1994, 359-366.
22. St. Djambazov, N. Nedelchev, Y. Dimitriev, Y. Ivanova, A. Yoleva, "Non-traditional frit compositions for ceramic tiles", **II Intern. Ceram. Congress**, vol. 1, Traditional ceramics, Turkey, 1994, 216-220.
23. Y. Dimitriev, E. Kashchieva, St. Djambazov, "Glasses and glass-ceramics in the system  $\text{TeO}_2 - \text{B}_2\text{O}_3 - \text{Bi}_2\text{O}_3 - \text{PbO}$ ", **Proc. 4th European Conference on Advanced Materials and Processes**, 25-28 Sept. Padua/Venice, Italy, 1995, 613-616.
24. St. Djambazov, Y. Dimitriev, E. Kashchieva, A. Yoleva, "Influence of the correlation between PbO and  $\text{Bi}_2\text{O}_3$  on the decorative properties of multicomponent glassy coatings", **Proc. International symposium on glass problems**, 4-6 September, Istanbul, Turkey, 1996, vol. 2, 178-182.
25. St. Djambazov, N. Nedelchev, Y. Ivanova, A. Yoleva, E. Kashchieva, Y. Dimitriev, "New frits with non-traditional decorative effects", **Proc. IV Word Congress on Ceramic Tile Quality, QUALICER' 96**, Castellon, Spain, 1996, 445-450.
26. St. Djambazov, Y. Ivanova, N. Nedeltchev, D. Georgieva, "Faience bodies with participation of clay marl", **Proc. 12<sup>th</sup> Conference on Glass and Ceramics**, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, 24-26 Sept., Varna, Bulgaria, 1996, 390-400.
27. St. Djambazov, Y. Ivanova, E. Kashchieva, A. Yoleva, "Microstructure of low-melting  $\text{B}_2\text{O}_3$  containing glassy coatings for traditional ceramics", **Proc. Second Int. Conf. on Borates Glasses, Crystals and Melts**, Abingdon, U.K., 1997, 1-7.

28. St. Djambazov, N. Nedelchev, A. Yoleva, "Amorphous silicate coatings for wall and floor tiles obtained by sol-gel technology", V Word Congress on Ceramic Tile Quality, QUALICER' 98, Castellon, Spain, 1998, 109-114.
29. St. Djambazov, N. Tzonev, D. Georgieva, V. Angelov, "Ceramic wall tile bodies containing clay marl "Botevo"", *Proc. 13<sup>th</sup> Conf. on Glass and Ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov 25-29 Sept., Varna, Bulgaria, 1999.
30. St. Djambazov, L. Pavlova, B. Stefanova, Petkova, M. Stefanova, A. Kitipov, Tz. Vutev, "Ceramic bodies for floor tiles containing polymicte", *Proc. 13<sup>th</sup> Conf. on Glass and Ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, 25-29 Sept., Varna, Bulgaria, 1999.
31. St. Djambazov, "Dry granulated frits and glazes – new tendency of the manufacture of fast single fired floor tiles", *Proc. 13<sup>th</sup> Conf. on Glass and Ceramics*, edited by B. Samuneva, Y. Dimitriev, S Buchvarov, I. Gutzov, 25-29 Sept., Varna, Bulgaria, 1999.
32. St. Djambazov, "Ceramic bodies for fast single-fired floor tiles containing argillaceous polymicte sandstone", *Proc. of VI Word Congress on Ceramic Tile Quality*, QUALICER' 2000, 12/15 March 2000, Castellon, Spain, 143-150.

**II. Научни публикации на доц. д-р инж. Стоян Петров Джамбазов за участие в конкурс за „професор”**

**II. 1. Публикации в международни специализирани научни списания и в списания с импакт фактор.**

33. S. Djambazov & D. Damgaliev, Statistical investigation and optimisation of frit compositions containing B<sub>2</sub>O<sub>3</sub> for 'monoporosa' wall tile glazes, *European Journal of Glass and Technology, Part A*, vol. 41, No. 6, December 2000, 201-203. IF 0,39
34. St. Djambazov, A. Yoleva, "Synthesis and properties of lanthanum hexaaluminate ceramic La<sub>1-x</sub>Ca<sub>x</sub>Al<sub>11-y</sub>Mg<sub>y</sub>Ti<sub>z</sub>O<sub>18</sub>", *Ceramic International*, 27, 2001, 899-901. IF 0,593

35. St. Djambazov, A. Yoleva, "Investigation of sanitaryware porcelain scrap behaviour in single-fired wall tile bodies", *Interceram*, vol. 51, N6, 2002, 408-409.
36. S. P. Djambazov, Decorative B<sub>2</sub>O<sub>3</sub> containing coloured frits for traditional ceramics, *Glass Technology – European Journal of Glass and Technology, Part A*, v. 44, N 2, April 2003, 82-84. IF 0,4
37. St. Djambazov, A. Yoleva, "Investigation of sanitaryware porcelain scrap behaviour in single-fired wall tile bodies", *Tile & Brick International*, 19, 5, 2003, 320-323.
38. St. Djambazov, A. Yoleva, G. Amzov, "Investigation of the influence of boron-zirconium frit on the properties of porcelain glaze for sanitaryware", *Glass Technology – European Journal of Glass and Technology, Part A*, v. 47, N 5, October 2006, 145-147. IF 0,54
39. S. P. Djambazov, A. P. Yoleva, O. K. Malinov, „Red-firing ceramic bodies for clinker tiles and bricks”, *Tile & Bricks International Manual*, 2009, 8-10.
40. A. Yoleva, St. Dambazov, V. Hristov, "Aluminum titanate ceramic with mullite adition", *Ceramics-Silikaty*, 53, 1, 2009, 21-25. IF 0,65
41. S. Djambazov, O. Malinov, A. Yoleva, „White halloysitic clay from the East Rhodopian paleogene depression at Kralevo village, Haskovo district, Bulgaria - potential raw material for ceramic industry”, *Interceram*, 58 [4] 2009 210-212.
42. St. Djambazov, A. Yoleva, "Ceramic raw materials for facing tiles from Northeastern Bulgaria", *Interceram*, 60, [3], 2011, 190-193.

## **II.2. Публикации в български специализирани научни списания**

43. S. Djambazov, A. Yoleva, Y. Ivanova, "Investigation of the behavior of a raw material from North Bulgaria in ceramic bodies for facing tiles", *Journal of the University of Chemical Technology and Metallurgy*”, XXXVII, 2, 2002, 89-94.

44. S. Djambazov, P. Markov, A. Yoleva, "Study of new raw materials for manufacture of clinker bricks and tiles", *Journal of the University Chemical Technology and Metallurgy*, XXXVIII, 4, 2003, 1247-1252.
45. A. Yoleva, S. Djambazov, D. Arsenov, V. Hristov, Effect of SiO<sub>2</sub> addition on thermal hysteresis of aluminum titanate, *Journal of the University of Chemical Technology and Metallurgy*, 45, 3, 2010, 269-274.
46. S. Djambazov, A. Yoleva, Y. Ivanova, Y. Vueva, Sintering of aluminum titanate – barium titanate ceramics prepared from sol-gel powders, *Journal of the University of Chemical Technology and Metallurgy*, 46, 1, 2011, 35-40.
47. A. Yoleva, S. Djambazov, G. Chernev, Influence of the puzzolanic additives trass and zeolite on cement properties, *Journal of the University of Chemical Technology and Metallurgy*, 46, 3, 2011, 261-266.
48. Albena Yoleva, Stoyan Djambazov, Yordanka Ivanova, Elena Kashchieva, Sol-gel synthesis of titanate phases from Aurivillius and Sillenite type (Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> and Bi<sub>12</sub>TiO<sub>20</sub>), *Journal of the University of Chemical Technology and Metallurgy*, 46, 3, 2011, 255-260.

**II.3. Публикации от международни конференции, отпечатани в пълен текст в сборници с редактор**

49. S. Djambazov, A. Yoleva, "Microstructure investigation of dry applied glazed coatings by SEM", *Proceedings of the First Balkan Conference on Glass Science & Technology*, Editor: G. Kordas and N. Vlachos, Volos, Greece, 9-10.10.2000, 449-454.
50. S. Djambazov & D. Damgaliev, Statistical investigation of frit compositions containing B<sub>2</sub>O<sub>3</sub> for "monoporosa" wall tile glazes, *Proc. of Third Int. Conf. on Borate glasses, crystals and melts*, Ed. By Y. Dimitriev and A. Wright, Society of Glass Technology, Sheffield, 2001, 159-168.

51. S. P. Djambazov, Decorative B<sub>2</sub>O<sub>3</sub> containing colored frits for traditional ceramics, *Proc. of Third Int. Conf. on Borate glasses, crystals and melts*, Ed. By Y. Dimitriev and A. Wright, Society of Glass Technology, Rapitz, USA, 2003, 82-84.
52. Stoyan Djambazov, Albena Yoleva, Teny Aladjov, Ognian Malinov, Irena Peicheva, Albena Ilieva, White bentonite “Ralitza” - new raw material for electroporcelain, *Proceedings of second Balkan conference on glass science and technology and 14 th conference of glass and ceramics*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, Varna, 24-28 september, 2002, vol. 2 – Ceramics, 33-38.
53. Stoyan Djambazov, Albena Yoleva, Ceramic bodies for fast single-fired facing tiles with participation of porcelain sanitary scrap, *Proceedings of second Balkan conference on glass science and technology and 14 th conference of glass and ceramics*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, Varna, 24-28 september, 2002, vol. 2 – ceramics, 107-110.
54. Stoyan Djambazov, Albena Yoleva, Vasil Hristov, Luiza Alois, Aluminum titanate ceramic prepared by slip casting of stabilized suspensions, *Proceedings of second Balkan conference on glass science and technology and 14 th conference of glass and ceramics*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, Varna, 24-28 september, 2002, vol. 2 – ceramics, 111-116.
55. Stoyan Djambazov, Albena Yoleva, Vasil Hristov, Daniel Arsenov, Influence of additives on the physico-mechanical properties of isostatically pressed aluminum titanate ceramic, *Proceedings of second Balkan conference on glass science and technology and 14<sup>th</sup> conference of glass and ceramics*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, Varna, 24-28 september, 2002, vol. 2 – Ceramics, 117-122.
56. St. Djambazov, A. Yoleva, Investigation of sanitary porcelain scrap behavior in ceramic bodies for single-fired wall tiles, *Proc. of VII World Congress on Ceramic Tile Quality*, QUALICER'2002, 12/15 march 2002, Castellon, Spain, v.3, 3-7.
57. St. Djambazov, P. Markov, A. Yoleva, Pastas ceramicas blancas para baldosas de clunker, *Proc. of VIII World Congress on Ceramic Tile Quality*, QUALICER'2004, 5-8 march 2004 Castelon, Spain, 2004, 87-90.



58. St. Djambazov, A. Yoleva, P. Markov, La piedra arenisca argilosa Vinishte una material prima potencial par alas pastas blancas ceramicas, *Proc. of IX World Congress on Ceramic Tile Quality*, QUALICER'2006, 5-8 march 2004 Castelon, Spain, 2006.
59. A. Yoleva, O. Petrov, S. Djambazov, O. Malinov, D. Stoycheva, "Clinoptilolite in volcanic neck structure near Kralevo deposit, Haskovo region (Bulgaria)", Editors: R.S. Bowman and S. E. Delap, *Zeolite '06-7<sup>th</sup> International Conference on the Occurrence, Properties and Utilization of Natural Zeolites*, Socorro, New Mexico USA, 16-21 July 2006, 256-257.
60. St. Djambazov, A. Yoleva, V. Hristov, S. Valkanov, Silicon nitride ceramic, *Proceeding 3<sup>rd</sup> Balkan Conference on Glass Science and Technology*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, 2007, 96 – 101.
61. St. Djambazov, A. Yoleva, P. Markov, Ceramic bodies for clinker articles with participation of new red-firing clay from North-Weast Bulgaria, *Proceeding 3<sup>rd</sup> Balkan Conference on Glass Science and Technology*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, 2007, 154-158.
62. S. Djambazov, G. Amzov, A. Yoleva, Investigation of the influence of boron-zirconium frit on the properties of porcelain glaze for sanitaryware, *Proceeding 3<sup>rd</sup> Balkan Conference on Glass Science and Technology*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, 2007, 194-198.
63. A. Yoleva, P. Djambazov, S. Djambazov, O. Petrov, Structural changes in opal from stambolovo deposit (Bulgaria) after thermal treatment, *Proceeding 3<sup>rd</sup> Balkan Conference on Glass Science and Technology*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, 2007, 203 – 208.
64. V. Hristov, St. Djambazov, A. Yoleva, Manufacture of aluminum titanate ceramic for metallurgical industry, *Proceeding 3<sup>rd</sup> Balkan Conference on Glass Science and Technology*, Editors: B. Samuneva, S. Bachvarov, I. Gutzow, Y. Dimitriev, 2007, 253 – 257.

65. O. Malinov, S. Djambazov, O. Petrov, "Clinoptilolite-containing rocks at the SW foot of Chala elevation, Haskovo region (Bulgaria) – position and genesis", Editors: O. E. Petrov and Y. K. Tzvetanova, *Zeolite 2010 -8<sup>th</sup> International Conference on the Occurrence, Properties and Utilization of Natural Zeolites*, Sofia, Bulgaria, 10-18 July 2010, 256-257.
66. V. Hristov, L. Alois, N. Tzanova, P. Simeonov, S. Djambazov, A. Yoleva, Effect of mullite addition on the properties of aluminium titanate ceramic, *Fourth Balkan Conf. Glass Sci. Technol.* Varna, 27 September-1 October, 2011.
67. S. Djambazov, A. Yoleva, New red-firing clay raw materials from southeast Bulgaria for clinker bricks and tiles production, *Fourth Balkan Conf. Glass Sci. Technol.* Varna, 27 September-1 October, 2011.

### III. Авторски свидетелства

68. Ст. Джамбазов и др., "Свърхпроводящ керамичен материал и метод за получаването му", **Авт. свидетелство рег. № 80263/19.06.1987.**
69. Д. Лепкова, Ст. Джамбазов, "Керамика от алуминиев титанат", **Авт. свидетелство, рег. № 87247/15.02.1989.**
70. Д. Лепкова, Ст. Джамбазов, Б. Самунева, Я. Димитриев, Й. Иванова, В. Димитров, "Керамичен материал от алуминиев титанат и метод за получаването му", **Авт. свидетелство, рег. № 88420/12.05.1989.**
71. Ст. Джамбазов и др., "Свърхпроводящ керамичен материал", **Авт. свидетелство, рег. № 89490/07.08.1989.**
72. Д. Лепкова, Ст. Джамбазов, Ст. Миланов, Н. Димитров, Мл. Христов, "Керамичен композиционен материал на основа алуминиев титанат", **Авт. свидетелство, рег. № 89683/05.03.1990.**

73. М. Лозев, Ст. Джамбазов, Д. Лепкова, "Метод за безразрушителен контрол на началото на степента на пукнатиннообразуване в керамика от алуминиев титанат"  
Авт. свидетелство, рег. № 92176/07.06.1990.
74. Стоян Джамбазов и др. "Керамична маса за производство на подови плочки",  
Патент № 100789 / ЕИК/11.05.1998.
75. Стоян Джамбазов, "Състав на керамична маса за производство на стенни  
плочки", Патент № 101854/ЕИК, 02.02.99.
76. Стоян Джамбазов, Теню Аладжов, Росен Николов, Патент № 63458 В1, ВГ,  
06.03.2002, , Състав на червена керамична маса за производство на подови  
плочки.
77. Стоян Джамбазов, Теню Аладжов, Росен Николов, Патент № 63459 В1, ВГ,  
06.03.2002, Състав на червена керамична маса за производство на стенни  
плочки.

#### IV. Учебници

78. Е. Герасимов, А. Герасимов, А. Атанасов, В. Тошев, Д. Петков, Д. Иванов, Л.  
Георгиева, Л. Павлова, Н. Дренска, П. Винаров, П. Петров,, С. Бъчваров, С.  
Панова, С. Багаров, С. Сербезов, С. Стефанов, Ст. Джамбазов, Т. Стойкова, Т.  
Дацкова, Х. Берлинов „Технология на керамичните изделия и материали”  
под редакцията на проф. дтн инж. Светлан Бъчваров, ИК „Сарасвати” 2003,  
второ издание 2010.
79. Ст. Джамбазов, А. Йолева, „Специални керамични материали”, ХТМУ-  
София, 2011.