

LIST OF PUBLICATIONS
KUDRYAVTSEV PAVEL GENNADIEVICH

1. Kudryavtsev P.G., Vol'khin V.V., Onorin S.A. The inorganic ion exchanger based on niobium pentoxide. Collection: Chemistry and Technology of Inorganic sorbents, Perm, 1976, p.35
2. Kudryavtsev P.G., Onorin S.A. The method for producing lead niobate, USSR patent № 632177 by application № 2373767, 21.06.76
3. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. The inorganic ion exchanger ISN-1, selective for lithium ions. Izvestia of High School. Non-ferrous metallurgy, № 3, 1977, pp.50-53
4. Kudryavtsev P.G., Onorin S.A. Sorption of alkali metal ions, by the hydrated niobium pentoxide. The inorganic ion exchangers (synthesis, structure, properties), № 212, Perm, 1977, pp.105-108
5. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V., Kolesov V.I. Preparation of metal niobates using as a starting material the hydrated niobium pentoxide. Chemistry and Technology of Inorganic sorbents, Perm, Abstracts of the All-Union Conference on ion exchange, 1979, p.67
6. Kudryavtsev P.G., Vol'khin V.V., Kolesov V.I. The ion-exchange synthesis of niobates and titanates. Adsorption and adsorbents, Naukova Dumka, Kiev, Vol.7, 1979, pp.79-81
7. Vol'khin V.V., Leont'yeva G.V., Kudryavtsev P.G., Khodyashev N.V., Shvetsova T.I. Ion-sieve cation exchangers for the selective adsorption of lithium. Chemistry and Technology of Inorganic sorbents, Perm, 1979, pp.49-53.
8. Kudryavtsev P.G., Vol'khin V.V., Onorin S.A. The effect of the dopant ions of iron (III) on the properties of the cation exchanger, ISN-1. Abstracts. Reports 2nd All-Union Conference "The inorganic ion exchange materials", RI behalf Khlopin, L., 1980, p.87.
9. Kudryavtsev P.G. Cation exchange properties of the mixed oxide type $\text{Li}_x\text{Mo}_y\text{NbO}_z$ and $\text{Li}_x\text{W}_y\text{NbO}_z$. Collection. Young scientists and specialists - to the national economy, Perm, 1982, pp. 23-24
10. Kudryavtsev P.G. Synthesis and properties of selective anion exchangers based on aluminum oxy-hydrate. Collection. Young scientists and specialists - to the national economy, Perm, 1982, pp. 31-32
11. Vol'khin V.V., Onorin S.A., Leont'yeva G.V., Kudryavtsev P.G., Khodyashev N.B., Chirkova L.G. Ways to control the ion exchange properties, in the synthesis of oxyhydrate sorbents. Abstracts. Reports of the seminar "Chemistry and Technology of Inorganic sorbents", Ashgabat, 1982, pp. 41-42
12. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. To assessment of the impact dopant ions on the cation exchange properties of oxyhydrate sorbents. Abstracts. Reports of the seminar "Chemistry and Technology of Inorganic sorbents", Ashgabat, 1982, pp. 42-43
13. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. The method for producing an inorganic anion exchanger. USSR patent № 1274763 by application № 3909091, 5.06.85
14. Kudryavtsev P.G. Synthesis and study of the properties of selective sorbents based on oxides of aluminum, titanium and niobium. The thesis Abstract PhD. Chem. Sciences, Moscow, 1982, 19 p.

15. Kudryavtsev P.G. The numerical procedure for solving the inverse problem of non-isothermal kinetics. Collection of young scientists and specialists - 11th Five-Year Plan, Abstracts. rep., Perm, 1983, pp. 27-28
16. Kudryavtsev P.G. Methods of study of the structure of amorphous inorganic sorbents. Actual problems of social, natural and technical sciences, Abstracts. rep. 3rd Conf. ICC, Perm, part 3, 1983, p. 29
17. Kudryavtsev P.G. Formation of acidity exchange centers of oxyhydrate sorbents. Actual problems of social, natural and technical sciences, Abstracts. rep. 3rd Conf. ICC, Perm, part 3, 1983, p. 63.
18. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Selecting doping ions and assess their impact on exchange properties of oxyhydrate sorbents. Solid State Chemistry, Sverdlovsk, 1983, pp. 37-46.
19. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. The method for producing of inorganic sorbent for extracting lithium from solutions. USSR patent № 1160627 by application № 3608178, 20.06.83.
20. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. The method for producing lithium-selective of inorganic sorbent. USSR patent № 1203739 by application № 3728022, 13.04.84.
21. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. The method for producing of inorganic anion exchanger. USSR patent № 1125043 by application № 3627434, 26.07.83.
22. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V., Yefimov V.A. The method for producing of inorganic sorbent selective to lithium. USSR patent № 1256274 by application № 3837054, 4.01.85.
23. Kudryavtsev P.G., Bochkarev S.V. Thermographic study of epoxy binders. Perm region. Conf. "Improving the efficiency and quality in mechanical production," Perm, 1985, p.25.
24. Kudryavtsev P.G., Onorin S.A., Khodyashev N.B., Sesyunina E.A. To lithium selective cation exchangers based on titanium and niobium oxides. Union Conference on reagents, Ufa, 1985, p. 61.
25. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Calculation of the influence of alloying additions on the cation-exchange properties of hydrated oxide. IX Seminar "Chemistry and Technology of Inorganic sorbents", Abstracts. rep., Perm, 1985, pp. 33-34.
26. Kudryavtsev P.G. The equilibrium of ion exchange on oxyhydrated, sorbents, complicated the dispersion of exchange centers for the exchange constant. IX Seminar "Chemistry and Technology of Inorganic sorbents", Abstracts. rep., Perm, 1985, pp.51-52.
27. Kudryavtsev P.G., Bochkarev S.V. Calculation program of kinetic parameters according to thermographic data. All-Union Conference on thermography, Uzhgorod, 1985, p.75.
28. Kudryavtsev P.G., Onorin S.A. Inorganic anion exchangers based on aluminum oxy-hydrate. IX Seminar "Chemistry and Technology of Inorganic sorbents", Abstracts. rep., Perm, 1985, p.19.
29. Vol'khin V.V., Leont'yeva G.V., Kudryavtsev P.G., Khodyashev N.B. Effect of doping ions on the structure and properties of thermally modified metal oxides. 4th All-Union Conference on Solid State Chemistry, Abstracts. rep., part 3., Sverdlovsk, 1985, p. 27.
30. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. A method of producing an inorganic ion exchanger. USSR patent № 1189497 by application № 3736131, 3.05.84.

31. Kudryavtsev P.G., Fazleyev M.P., Klyachkin Yu.S., Zhuravlev S.G. Special topic. USSR patent № 248522 by application № 3134105, 4.02.86
32. Kudryavtsev P.G. Application of correlation models to describe the synthesis of selective sorbents based mixed oxy-hydrates. Chemically reactive mixtures, Abstracts. reports, Perm, 1986, pp. 19-20
33. Kudryavtsev P.G. Synthesis of metal niobates based products of ion exchange absorption cations with hydrated niobium oxide (5). Chemically reactive mixtures, Abstracts. reports, Perm, 1986, pp. 21-22
34. Kudryavtsev P.G. Mixed oxyhydrates of metals as an active base for anion-exchange materials. Chemically reactive mixtures, Abstracts. reports, Perm, 1986, pp. 22-23
35. Kudryavtsev P.G. Special topic "Bolide". The report, mailbox A-1233, Moscow, 1986, 15 p.
36. Kudryavtsev P.G., Vol'khin V.V., Onorin S.A., Khodyashev N.B. About predicting the sorption properties of the mixed oxyhydrates of metals. 9 All-Union Seminar "Chemistry and Technology of Inorganic sorbents", Dushanbe, 1986, p. 48
37. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Modifying oxyhydrate sorbents by introducing alloying additives. Manuscript deposited at VINITI, 1986, № 6445-V86 on 09.04.86, 18 p.
38. Kudryavtsev P.G. Special topic. The report, mailbox A-1504, Perm, 1987, 50 p.
39. Kudryavtsev P.G. Special topic. The report, mailbox A-1504, Perm, 1987, 30 p.
40. Kudryavtsev P.G. Special topic. The report, mailbox A-1233, Perm, 1987, 45 p.
41. Kudryavtsev P.G. The equilibrium of ion exchange on oxyhydrated sorbents complicated the dispersion of exchange centers for the exchange constant. Journal of Physical Chemistry, Vol. 61, 3, 1987, pp. 848-851
42. Kudryavtsev P.G., Onorin S.A. Vol'khin V.V., Sesunina E.A. A method of producing an inorganic anion exchanger AAT-1, USSR patent № 1435280 by application № 4227940, 13.04.87
43. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. A method of producing an inorganic anion exchanger. USSR patent № 1435281 by application № 4228474, 13.04.87
44. Kudryavtsev P.G., Zhuravlev S.G. Areas of application and ways to create ion exchange sorbents for medical purposes. The natural sciences for healthcare, Abstracts. rep., Perm, 1987, pp. 4-5
45. Kudryavtsev P.G., Savina L.V. The behavior of the serum of the blood system of a healthy person on drying. The natural sciences for healthcare, Abstracts. rep., Perm, 1987, pp. 5-6.
46. Kudryavtsev P.G. Nature uniformity of the active sites on the surface of oxyhydrated metals produced by sol-gel method. Formation of surface interfacial interaction in composites, Abstracts. rep., Izhevsk, 1987, pp.9-10
47. Kudryavtsev P.G., Klyachkin Yu.S. Surface modification of the fillers by homogeneous precipitation of aluminum hydroxide. Formation of surface interfacial interaction in composites, Abstracts. rep., Izhevsk, 1987, pp. 10-11.
48. Kudryavtsev P.G., Klyachkin Yu.S. Mathematical modeling of surface modification of materials by precipitation of colloidal particles. Mathematical modeling of processes in material production and processing, Perm, 1988, pp. 17-18.

49. Kudryavtsev P.G. The use of the Fokker-Planck equation for modeling of particle colloidal aqua-, oxo-, hydroxo-, metal complexes Mathematical modeling of processes in material production and processing, Perm, 1988, p. 19.
50. Kudryavtsev P.G., Murav'yev G.A. The viscosity of the dispersed system cooperation given orientation of the dispersed phase. Mathematical modeling of processes in material production and processing, Perm, 1988, pp. 17-18.
51. Kudryavtsev P.G. Special topic. The report, mailbox A-1504, Perm, 1988, 70 p.
52. Kudryavtsev P.G. Special topic «Bizon». The report, mailbox A-1233, Moscow, 1988, 60 p.
53. Kudryavtsev P.G., Sesyunina E.A., Onorin S.A., Vol'khin V.V. The process for producing granulated organic-mineral sorbent. USSR patent № 1603572 by application № 4368912, 25.01.88
54. Kudryavtsev P.G., Kropacheva M.V. Surface modification of the fillers by homogeneous precipitation of aluminum hydroxide. Formation of surface and interfacial interactions in composites, Abstracts. rep., Izhevsk, 1988, p. 27.
55. Kudryavtsev P.G., Kavalerova O.B. The dynamics of changes in particle size of the inorganic polymers in solution. Formation of surface and interfacial interactions in composites, Abstracts. rep., Izhevsk, 1988, p. 47.
56. Kudryavtsev P.G., Kropacheva M.V. Special topic. USSR patent № 306393 by application № 4504536, 19.12.88
57. Ketov A.A., Fazleyev M.P., Ismagilov Z.R., Barannik G.B., Kudryavtsev P.G. The method for producing oxide catalysts. USSR patent № 1615945 by application № 4644450/04, 29.12.88
58. Kudryavtsev P.G., Zhuravlev S.G., Botov V.A., Klyachkin Yu.S., Lavrov L.N., Ipanova O.P., Novgorodtseva M.M., Shafit Ya.M., Leonov A.A., Radushev A.V., Begishev V.P. The composition for the production of water-soluble shaping products. USSR patent № 1696097 by application № 4634416/33, 9.01.89.
59. Kudryavtsev P.G., Ketov A.A., Fazleyev M.P., Ismagilov Z.R. The application of oxide films on ceramic substrates using a sol-gel method. Physical and chemical bases of processing of poor natural resources and industrial waste in the preparation of heat-resistant materials, Vol. 1, Abstracts. rep. All-Union Conf., Syktyvkar, 1989, p. 44.
60. Kudryavtsev P.G., Koltakov A.I. Highly sensitive device for measuring the yield strength of the gelling sol. Physical and chemical bases of processing of poor natural resources and industrial waste in the preparation of heat-resistant materials, Vol. 1, Abstracts. rep. All-Union Conf., Syktyvkar, 1989, p. 79.
61. Kudryavtsev P.G. Simulation of the process of sol-gel transition. Physical and chemical bases of processing of poor natural resources and industrial waste in the preparation of heat-resistant materials, Vol.1, Abstracts. rep. All-Union Conf., Syktyvkar, 1989, p. 81.
62. Kudryavtsev P.G., Kropacheva M.V. Preparation of ultra-lightweight ceramic materials using a sol-gel transition. Physical and chemical bases of processing of poor natural resources and industrial waste in the preparation of heat-resistant materials, Vol.1, Abstracts. rep. All-Union Conf., Syktyvkar, 1989, p. 85.

63. Kudryavtsev P.G., Vol'khin V.V., Onorin S.A. Synthesis and properties of lithium-selective cation exchangers based on hydrated niobium pentoxide with alloying additions. Chemistry and Technology of Inorganic sorbents, Interuniversity collection of scientific papers, PPI, Perm, 1989, pp. 140-149.
64. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Influence of deposition conditions on the structure and ion exchange properties of the hydrated aluminum oxide. Izvestia of High School. Non-ferrous metallurgy, № 2, 1990, pp. 21-26.
65. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Effect of heat treatment on the ion exchange properties and structure of materials containing of hydrated aluminum oxide. Izvestia of High School. Non-ferrous metallurgy, N 3, 1990, pp.26-31.
66. Kudryavtsev P.G., Kavalerova O.B., Kazakova I.L., Zharnyl'skaya A.L., Vol'khin V.V. Silicon- and aluminum-sols as binders in the sol-gel technology for composite materials. Interregional Conference on Composites, Abstracts. rep., Moscow, 1990, p.116.
67. Kudryavtsev P.G. Koltakov A.I., Vol'khin V.V. Device for the study of the rheological properties of gelling soils are used as binders in composites. Moscow Interregional Conference on Composites, Abstracts. rep., 1990, p. 257.
68. Kudryavtsev P.G., Kropacheva M.V., Kavalerova O.B., Pilipenko V.G., Vorob'yev O.A., Vol'khin V.V. The sol-gel method to obtain ultra-lightweight fire-resistant composite materials. Moscow Interregional Conference on Composites, Abstracts. rep., 1990, p. 119.
69. Kudryavtsev P.G., Bochkarev S.V. The impact of radiation exposure on the mechanical properties of composite materials. The manuscript is deposited in the sec. "INFORMTEKHNIKA», № 3564/2558, the Bible. Index Ser. 1, 1990, №6, 10 p.
70. Kudryavtsev P.G., Executive editor. Synthesis and properties of cross-linked polymers, and compositions based thereon. The collection of works, Sverdlovsk, 1990, 88 p.
71. Kudryavtsev P.G. Kavalerova O.B. Kropacheva M.V. Pilipenko V.G. The development of fire-resistant, ultra-light materials, on the basis of sol-gel processes for thermal units of construction materials industry (Review), Report on scientific research work on economic contract N 10/90, Subject 1.63.51., Perm, 19906 pp. 1-63.
72. Kudryavtsev P.G. Kavalerova O.B. Pilipenko V.G. Vorob'yev O.A. Kropacheva M.V. Koltakov A.I. Zharnyl'skaya A.L. Anashkina Ye.N. The development of fire-resistant, ultra-light materials, on the basis of sol-gel processes for thermal units of construction materials industry (Final), Report on scientific research work on economic contract N 10/90, Subject 1.63.51., Perm, 1990, pp. 1-68.
73. Vol'khin V.V. Kudryavtsev P.G. Kavalerova O.B. Klotakov A.I. Krotkikh A.N. Kropacheva M.V. Pilipenko V.G. Vorob'yev O.A. Kazakova I.L. Zharnyl'sya A.L. Anashkina Ye.N. Mordvinova T.A. Development of physical and chemical bases of the sol-gel technology for the sorbents and ceramics, Report on scientific research work for households. N of state. Registration 01.89.0020584, Perm, 1990, pp. 1-184.
74. Kudryavtsev P.G., Koltakov A.I. A method for determining the gel time of the dilute sols. USSR patent №1810098 by application № 4900496/33, 8.01.91

75. Kudryavtsev P.G., Mikhaylovsky A.A., Mikhaylovsky A.G., Polozov A.A. Correlation spectrometer. I All-Union Conference "Optical research streams", Theses of reports, Novosibirsk, 1991, pp. 212-213.
76. Kudryavtsev P.G. Modeling of sol-gel transition processes. 9th International Conference on Surface Forces, Abstracts. rep., Moscow, 1991, p.43.
77. Kudryavtsev P.G., Koltakov A.I. Rheological studies of gelation. Reo-physics and thermal physics of nonequilibrium systems - 4.1. The nonequilibrium processes in heterogeneous environments: Materials Intern. School-Seminar, Minsk, 1991, p. 164.
78. Kudryavtsev P.G., Vol'khin V.V. The sol-gel processes and some of its technological applications. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, pp. 3-5.
79. Kudryavtsev P.G., Koltakov A.I., Vol'khin V.V. Rheology of gelation. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p.9.
80. Kudryavtsev P.G. Modeling the sol-gel process. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 10.
81. Kudryavtsev P.G., Mordvinova T.A. Modeling aggregation of colloidal dispersions by the method of molecular dynamics. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 11.
82. Kudryavtsev P.G., Kavalerova O.B., Vol'khin V.V. Preparation of monolithic blocks based on the silica sol with the organic additives. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 32.
83. Kudryavtsev P.G., Kavalerova O.B., Kazakova I.L., Vol'khin V.V. Preparation and stabilization of the colloidal solutions of metal oxides. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 33.
84. Kudryavtsev P.G., Koltakov A.I. Device for the study of the rheology of gelation. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 43.
85. Kudryavtsev P.G., Krotkikh A.N., Kavalerova O.B., Kazakova I.L., Mordvinova T.A. Determination of particle size distribution in silica and aluminum-sols by the method of ultracentrifugation. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 44.
86. Kudryavtsev P.G., Krotkikh A.N., Vol'khin V.V. Photo Sedimentation device for determining the size distribution of particles in ceramic powders. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 45.
87. Kudryavtsev P.G., Pilipenko V.G., Vorob'yev O.A. Applying a sol-gel process for reducing the porosity of inorganic fiberglass. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 59.
88. Kudryavtsev P.G., Pilipenko V.G., Vorob'yev O.A., Krotkikh A.N., Kavalerova O.B. Use of sols of silicon and aluminum oxides to produce an ultra-lightweight, heat-shielding materials. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 62.

89. Kudryavtsev P.G., Krotkikh A.N., Vol'khin V.V. Preparation of spherical powder Al_2O_3 . The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 73.
90. Kudryavtsev P.G., Kropacheva M.V. Application of protective layer of aluminum oxide on oxide fillers. The sol-gel processes for the production of inorganic materials, Abstracts. rep. seminar, Perm, 1991, p. 89.
91. Kudryavtsev P.G. Modeling of kinetics and structure formation at the sol-gel transition. 6th International Workshop on glass and ceramics from gels, Spain, 1991, 2 p.
92. Kudryavtsev P.G., Pilipenko V.G. Application of sol-gel processes for producing ultra-light weight composite materials. 6th International Workshop on glass and ceramics from gels, Spain, 1991, 1 p.
93. Kudryavtsev P.G., Koltakov A.I. Rheological studies on gelation. 6th International Workshop on glass and ceramics from gels, Spain, 1991, 1p.
94. Kudryavtsev P.G., Kavalerova O.B., Kazakova I.L., Vol'khin V.V., Koltakov A.I. Preparation and stabilization of colloidal solutions of metal oxides. 6th International Workshop on glass and ceramics from gels, Spain, 1991, 1 p.
95. Kudryavtsev P.G. Modeling of sol-gel transition processes. Composite materials based on dispersed systems, Perm, 1991, pp. 23-30.
96. Kudryavtsev P.G., Kropacheva M.V., Kavalerova O.B., Pilipenko V.G., Vorob'yev O.A., Kazakova I.L. Applying a sol-gel process for producing ultra-lightweight composite materials. Composite materials based on dispersed systems, Perm, 1991, pp. 19-23.
97. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V. Structure formation and ion-exchange properties of mixed oxides in the system $\text{Li}_2\text{O}-\text{Fe}_2\text{O}_3-\text{Nb}_2\text{O}_5$. Izvestia of the USSR Academy of Sciences Ser. Inorganic materials, Vol. 27, № 7, 1991, pp. 1479-1482.
98. Kudryavtsev P.G., Koltakov A.I. Determination of gelation for dilute sols. The collection of works MICC-90, ELSEUVIER, 1991, 1 p.
99. Kudryavtsev P.G., Kavalerova O.B., Kazakova I.L. Influence of various factors on the gelation of silica sol obtained by the ion exchange method. Physico-chemical properties of the composites and organic reagents with active functional groups, Sverdlovsk, 1991, pp.79-83.
100. Kudryavtsev P.G. Modelling growth processes of metal oxide sols particles. Physico-chemical properties of the composites and organic reagents with active functional groups, Sverdlovsk, 1991, pp. 83-86.
101. Kudryavtsev P.G., Kavalerova O.B., Kropacheva M.V., Pilipenko V.G., Vol'khin V.V. Sol-gel processes for the production of ultra-lightweight inorganic composite materials. Abstracts. rep. Visiting session of the Scientific Council of Inorganic Chemistry, Academy of Sciences of the USSR, Perm, 1991, pp. 54-55.
102. Kudryavtsev P.G., Kavalerova O.B., Kazakova I.L., Fedoseev M.S. The method for producing aluminum hydroxide hydrosol. USSR patent № 1778069 by application № 4869115/02, 25.09.90
103. Kudryavtsev P.G., Kavalerova O.B., Pilipenko V.G., Kazakova I.L., Vorob'yev O.A., Kropacheva M.V. The method for producing refractory, heat-shielding material. USSR patent № 1787890, by application № 4900496/33, 8.01.91.

104. Kudryavsky Yu.P., Kudryavtsev P.G., Anashkin V.S., Stepanov S.S., Kolesnikov V.A., Yakovenko B.A., Bondarev E.I., Abramov D.S., Aleksandrovskiy S.V., Kozhevnikov V.L., Chizhov N.N., Strelkov V.V. The technology of scandium extracting from waste products. I International Symposium "Problems of complex use of ore", St. Petersburg, 1994, p.238.
105. Kudryavtsev P.G. Methods for producing oxide, lightweight, fire-resistant materials. Collection of scientific papers. Composite materials based on dispersed systems, Ural Branch of Russian Academy of Sciences, Ekaterinburg, 1994, pp. 4-21.
106. Kudryavtsev P.G., Kavalerova O.B. Methods for preparing the sols of metals oxy-hydrates used as inorganic binders for molding composites Collection of scientific papers. Composite materials based on dispersed systems, Ural Branch of Russian Academy of Sciences, Ekaterinburg, 1994, pp. 21-29
107. Kudryavtsev P.G., Kavalerova O.B., Vol'khin V.V. Preparation of monolithic blocks based on the silica sol with the organic additives. Coll. scientific works. Sol-gel processes for the production of inorganic materials. UB RAS, 1996, pp. 87-91.
108. Kudryavtsev P.G., Kazakova I.L., Kavalerova O.B., Vol'khin V.V. Investigation of the interaction silica and aluminum-sols. Coll. scientific works. Sol-gel processes for the production of inorganic materials. UB RAS, 1996, pp. 91-95.
109. Kudryavtsev P.G. The apparatus for producing high-purity metallic scandium. The certificate for a utility model № 1997, by application № 93015452, 24.3.1993.
110. Kudryavtsev P.G., Savina L.V., Tuyev A.V., Pereskokov V.N., Mukhachev A.I. Registration method of infrared radiation of the human body. Patent RF № 2088924, by application № 5046215/14, 05.06.92.
111. Kudryavtsev P.G., Onorin S.A., Vol'khin V.V., Khodyashev N.B., Khodyashev M.B., Vol'khin D.V. Inorganic sorbents based on metal hydroxide for extracting micro impurities from the liquid mediums. Coll. scientific papers. Chemistry, technology, industrial ecology of inorganic compounds. Vol. 1, Perm, 1998, pp.101-106.
112. Kudryavtsev P.G., Arkhipov S.A., Krasnoshchekov A.I. Complex processing of industrial wastes of butyl alcohols in order to ensure safety of production. Control Technology of Industrial Safety, Perm, 2000, pp.78-79.
113. Kudryavtsev P.G., Koltakov A.I. The method for producing a refractory heat-insulating material. Patent RF № 2211202, by application № 2001134845/03, 25.12.2001.
114. Kudryavtsev P.G., Arkhipov S.A., Krasnoshchekov A.I. An integrated approach to the processing of side products of the production of butyl alcohols. The exit strategy from the global environmental crisis: materials of scientific readings. Publishing house IAELPS, St. Petersburg, 2001, pp.113-114.
115. Kudryavtsev P.G. Processing of cobalt containing wastes of oxosynthesis process. The exit strategy from the global environmental crisis: materials of scientific readings. Publishing house IAELPS, St. Petersburg, 2001, pp.124-125.
116. Kudryavsky Yu.P., Kudryavtsev P.G. Kazantsev V.P., Anashkin V.S., Trapeznikov Yu.F., Krasnoshchekov A.I., Bekker V.F., Rakhimova O.V., Potekha S.I. Production of inorganic pigments, the extraction of rare metals, the localization of radioactive substances in the complex

- processing of polymetallic and disposal of waste products. The exit strategy from the global environmental crisis: materials of scientific readings. Publishing house IAELPS, St. Petersburg, 2001, p.276.
117. Kudryavsky Yu.P., Kudryavtsev P.G. Kazantsev V.P., Anashkin V.S., Trapeznikov Yu.F., Bekker V.F. Using of metallurgical plants wastes for obtaining inorganic pigments. The collection of works of the International Congress 300 years of the Ural metallurgy, Pyshma, 2001, p.277.
 118. Kudryavtsev P.G. The trademark "Dimer". The certificate for the trademark (service mark) № 222929, by application № 2001704956, 19.2.2001.
 119. Kudryavtsev P.G. The trademark "TRIVEKTR". The certificate for the trademark (service mark) № 226784, by application № 2001704716, 19.2.2001.
 120. Kudryavtsev P.G., Kropacheva M.V. The homogeneous precipitation of aluminum oxide hydroxide. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.17-21.
 121. Kudryavtsev P.G., Kazakova I.L., Koltakov A.I. Investigation of the sol-gel transition in the silica sol obtained by the ion exchange method. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.32-35.
 122. Kudryavtsev P.G. Oxide, heat-resistant, lightweight materials. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.41-40.
 123. Kudryavtsev P.G., Fisher E.B. Experience of continuous research process, design, production and sales. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.55-57.
 124. Kudryavtsev P.G. The main approaches to modeling the processes of the sol-gel transition. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.66-71.
 125. Kudryavtsev P.G., Arkhipov S.A., Krasnoshchekov A.I. Processing of waste products of butyl alcohols in order to obtain valuable products. Collection of articles: "Prospects for the development of natural sciences in high school," Perm, 2001, pp.83-83.
 126. Kudryavsky Yu.P., Kudryavtsev P.G., Trapeznikov Yu.F., Kazantsev V.P., Krasnoshchekov A.I., Bekker V.F. The method for producing iron oxide pigments. Patent RF № 2209820, by application № 2001117951, 28.6.2001.
 127. Kudryavtsev P.G. The trademark "FTALENOL". The certificate for the trademark (service mark) № 264109, by application № 2002717880, 9.9.2002.
 128. Kudryavsky Yu.P., Kudryavtsev P.G. Grachev V.A., Zilberman M.V., Shenfield B.E. Instrumental and technological complex for the disposal of highly toxic halogenated organic substances. Patent RF for utility model № 2004137992, 24.12.2004.
 129. Kudryavtsev P.G., Korkin A.M., Balabyshko A.M. Nedugov A.N. Device for preparing emulsions and suspensions. Patent RF № 2283168, by application № 2002102269, 30.01.2002.
 130. Kudryavtsev P.G. Installation for the synthesis of organometallic compounds, Patent RF for utility model № 46202, by application № 2005101893, 26.01.2005.

131. Kudryavtsev P.G., Nedugov A.N. The continuous process of research, design, build, manufacture, and sale of products, as a basis for the functioning of the innovative enterprise. Proceedings of the International Scientific Conference "Innovation potential of the natural sciences", Perm, 2006, p.279.
132. Kudryavtsev P.G., Batalin B.S., Tetenov V.V., Nedugov A.N., Korotaev I.M. Foam concentrate for thermal insulation of concrete BG-20. Patent RF № 2288203, by application № 2005112094, 25.04.2005.
133. Kudryavtsev P.G., Nedugov A.N., Korotaev I.M., Kaysin A.V. Foam concentrate for structural concrete BG-20X. Application for a patent of the RF №2007107539/03, 28.02.2007.
134. Kudryavtsev P.G. The continuous process of research, design, build, manufacture, and sale of products, as a basis for the functioning of the innovative enterprise. Conference Proceedings "Information, innovation, investment," NSI at PSU, Perm, 2006, pp.57-59.
135. Kudryavtsev P.G., Kotelnikova M.V., Kudryashova O.S. The method of separation of polyols, such as Neopentylglycol, and sodium formate (variants). Patent RF № 2340590, by application № 2007107727/04, 01.03.2007.
136. Kudryavtsev P.G., Nedugov A.N., Ryabov V.A., Volkova M.A., Kaysin A.V., Korotaev I.M., Korkin A.M. The method for producing an aluminum-silicon flocculant-coagulant and method of water purification using it. Patent RF № 2388693, by application № 2008131241, 28.07.2008.
137. Volkova M.A., Degtev M.I. Kudryavtsev P.G., Nedugov A.N. Kaysin A.V., Andriyenko S.V. New high-tech aluminum-silicon flocculant coagulant as an alternative to a known purification reagent. Actual problems of chemical science, practice and education, Collected papers of the International scientific-practical conference, May 19-21, 2009, Part 2, Moscow, pp. 19-22.
138. Syutkin R.V., Abashev G.G., Kudryavtsev P.G., Shklyayeva E.V., Nedugov A.N. Synthesis of new fluorescent amorphous materials. Friedel-Crafts reaction of tertiary alcohols, fluorene-based, with heterocyclic compounds. "Technical chemistry, from theory to practice", Perm, 2009, pp.131-135.
139. Syutkin R.V., Abashev G.G., Kudryavtsev P.G., Shklyayeva E.V., Nedugov A.N., Bushuyeva A.Yu. Synthesis and electrochemical study of ferrocene containing heterocycles. "Technical chemistry, from theory to practice", Perm, 2009, pp.178-182.
140. Abashev G.G., Kudryavtsev P.G., Antuf'yeva A.D., Bushuyeva A.Yu., Osorgina I.V., Syutkin R.V., Shklyayeva E.V. Ferrocene, coupled with thiophene, carbazole and pyrimidine fragments: synthesis and properties. Journal of Applied Chemistry, 2010, Vol. 83, 8, pp.1330-1334.
141. Kudryavtsev P.G. Semipalatinsk nuclear test site - yesterday, today and tomorrow. Bulletin of Perm Scientific Center of UB RAS, №1, 2010, p. 52-63.
142. Syutkin R.V., Abashev G.G., Kudryavtsev P.G., Shklyayeva E.V. New carbazol-containing chalcones and pyrimidines on their basis: Synthesis and Electrochemical study, Journal of Organic Chemistry, 2011, Vol.47, №4, p. 532-537.
143. Volkova M.A., Degtev M.I., Kudryavtsev P.G., Nedugov A.N., Kaysin A.V., Andriyenko S.V. New high-tech aluminum-silicon-flocculant coagulant as an alternative to a known purification reagent. The collection of works ENI at PSU, Perm, 2010, pp.41-43.

144. Kudryavtsev P.G., Nedugov A.N., Volkova M.A., Kaysin A.V., Kudryavtsev N.P. Composite reagents for the purification of natural and sewage water. Abstracts, IX International Kurnakov meeting on physico-chemical analysis, 5-9.07.2010, Perm, 2010, p.283.
145. Nedugov A.N., Volkova M.A., Kaysin A.V., Kudryavtsev P.G., Kudryavtsev N.P., Poroshina N.V., Ryabov V.A. The method for producing a composite aluminum-silicon-coagulant flocculant. Patent RF № 2447021, by application № 2010133345/05, 9.08.2010.
146. Nedugov A.N., Volkova M.A., Kaysin A.V., Kudryavtsev P.G., Kudryavtsev N.P., Poroshina N.V., Ryabov V.A. The method for producing iron-silicon flocculant coagulant and method of water treatment. Patent RF № 2438993, by application № 2010133344/05, 9.08.2010.
147. Kudryavtsev P. Alkoxides of chemical elements - Promising class of chemical compounds which are raw materials for HI-TECH industries, Journal "Scientific Israel - Technological Advantages", Vol.16, no.2, 2014, pp.147-170.
148. Kudryavtsev P.G., Figovsky O.L. Liquid glass, and water solutions of silicates, as a promising basis for the technological processes of new nanocomposite materials. "Engineers Don Gazette", №2, 2014, 42 p.
149. Kudryavtsev P.G., Figovsky O.L. Nanocomposite Organo-Mineral Hybrid Materials. "Engineers Don Gazette", №2, 2014, 45p.
150. Kudryavtsev P. Production Technology Development and Creation of Production of Additives used in Solid Rocket Propellants. Journal "Scientific Israel - Technological Advantages", Vol.16, №3, 2014, pp.25-37.
151. Kudryavtsev P., Figovsky O. Advanced Nanomaterials Based on Soluble Silicates. Journal "Scientific Israel - Technological Advantages", Vol.16, №.3, 2014, pp.38-76.
152. Kudryavtsev P.G., Figovsky O.L. Nanocomposite Organo-Mineral Hybrid Materials (Part 1). Science and Life of Israel <http://nizi.co.il/index.php/nauka/2012-12-24-08-11-26/tehn-nauki/item/1026-my-nachinaem-publikatsiyu-bolshoj-stati-dvukh-izralskikh-professorov-p-g-kudryavtseva-i-o-l-figovskogo-s-prodolzheniyami#sthash.q4Q3qoRn.dpuf>. 10 p.
153. Kudryavtsev P.G., Figovsky O.L. Nanocomposite Organo-Mineral Hybrid Materials (Part 2). Science and Life of Israel <http://nizi.co.il/index.php/nauka/2012-12-24-08-11-26/tehn-nauki/item/1026-my-nachinaem-publikatsiyu-bolshoj-stati-dvukh-izralskikh-professorov-p-g-kudryavtseva-i-o-l-figovskogo-s-prodolzheniyami#sthash.q4Q3qoRn.dpuf>. 10p.
154. Kudryavtsev P.G., Figovsky O.L. Nanomaterials Based on Soluble Silicates. Monograph, LAP Lambert Academic Publishing, ISBN 978-3-659-58361-2, 2014, 165p.
155. Kudryavtsev P., Figovsky O. Nanomaterials Based on Soluble Silicates. Journal "Scientific Israel - Technological Advantages", vol.16, №4, 2014, p.115.
156. Kudryavtsev P.G., Figovsky O.L. Nanomaterials Based on Soluble Silicates, Nanotechnology in construction. -2014, Vol. 6, № 6, Book Review, p. 89-90 <http://nanobuild.ru>
157. Kudryavtsev P., Figovsky O. Nanomaterials based on soluble silicates. Nanotechnology in construction. -2014, Vol. 6, № 6, Book Review, p. 92 <http://nanobuild.ru>
158. Kudryavtsev P., Figovsky O. Soluble Silicates Such as a Promising Basis for Obtaining Hybrid Nanocomposite Materials. IV International Conference "Technical chemistry, from theory to practice", October 20-24, 2014, Perm, p. 71. DOI: 10.13140/RG.2.1.2457.8722

159. Kudryavtsev P.G., Kudryavtsev N.P., Nedugov A.N., Volkova M.A., Kudryavtsev I.P. Solid Alumina-Silicon Flocculants-Coagulants - Matrixisolated Nanocomposites. IV International Conference "Technical chemistry, from theory to practice", October 20-24, 2014, Perm, p. 38. DOI: 10.13140/RG.2.1.2195.7283
160. Kudryavtsev P.G., Figovsky O.L. Nanostructured materials, production and use in construction. Nanotechnology in construction. –2014. – Vol. 6, № 6. p. 27–45. DOI: dx.doi.org/10.15828/2075-8545-2014-6-6-27-45
161. Kudryavtsev P., Figovsky O. Nanomaterials based on soluble silicates. Monograph, LAP Lambert Academic Publishing, 2014, 241 p. ISBN 978-3-659-63556-4
162. Kudryavtsev P. Hydride. Synthesis, Chemical Properties. A Wikipedia Collection compiled by Pavel Kudryavtsev. Monograph, The PediaPress Team, 2014, Merchant's reference: 201412210021.266.
163. Kudryavtsev P.G., Figovsky O.L. Basic approaches to the modeling of solidification processes in the nanodispersed silicate systems. Nanotechnology Society of Russia, 2015, pp.1–42, <http://www.rusnor.org/pubs/articles/11852.htm>
164. Kudryashova O.S., Kudryavtsev P.G., Kotelnikova M.V. Neopentylglycol extraction process from water-organic systems. The part I. "Engineers Don Gazette", №4, 2014, 30 p. <http://www.ivdon.ru/ru/magazine/archive/N4y2014/2738>
165. Kudryashova O.S., Kudryavtsev P.G., Kotelnikova M.V. Neopentylglycol extraction process from water-organic systems. The part II. Engineers Don Gazette, №4, part 2, 2014, 38 p. <http://www.ivdon.ru/ru/magazine/archive/n4p2y2014/2745>
166. Kudryavtsev P.G., Figovsky O.L. Quasi-homogeneous approximation to describe the properties of disperse systems. Basic approaches to the modeling of nanodispersed curing processes in silicate systems. The part I. Statistical polymer method. Nanotechnology in Construction. – 2015. – Vol. 7, № 1. – pp. 29–54. DOI: dx.doi.org/10.15828/2075-8545-2015-7-1-29-54.
167. Kudryavtsev P., Figovsky O. Simulation of hardening processes, in silicate systems. International Letters of Chemistry, Physics and Astronomy, Vol. 5, №1, 2015, pp.1-49, ISSN 2299-3843, DOI: 10.18052/www.scipress.com/ILCPA.44.1
168. Kudryashova O.S., Kudryavtsev P.G., Kotelnikova M.V. Processes of Neopentylglycol Extraction from Water Organic Mixtures. Journal "Scientific Israel - Technological Advantages", Vol.17, №1-2, 2015, pp. 85-121, ISSN: 1565-1533
169. Kudryavtsev P., Figovsky O. Simulation of Hardening Processes in Silicate Systems, Journal "Scientific Israel - Technological Advantages", Vol.17, №1-2, 2015, pp.122-159, ISSN: 1565-1533.
170. Kudryavtsev P.G., Figovsky O.L. Quasi-homogeneous approximation to describe the properties of disperse systems. Basic approaches to the modeling of nanodispersed curing processes in silicate systems. The part II. Solidification processes with a statistical physics point of view. Nanotechnology in Construction. – 2015. – Vol. 7, № 2. – p. 62–84. DOI: dx.doi.org/10.15828/2075-8545-2015-7-2-62-84
171. Kudryavtsev P.G., Figovsky O.L. Quasi-homogeneous approximation to describe the properties of disperse systems. Basic approaches to the modeling of nano-dispersed curing processes in

- silicate systems. The part III. Overcoming energy barriers. Nanotechnology in Construction. – 2015. – Vol. 7, № 3. – p. 15–36. – DOI: dx.doi.org/10.15828/2075-8545-2015-7-3-15-36.
172. Kudryavtsev P.G., Figovsky O.L. Quasi-homogeneous approximation to describe the properties of disperse systems. Basic approaches to the modeling of nanodispersed curing processes in silicate systems. The part IV. The main approaches to modeling the kinetics of the sol-gel transition. Nanotechnology in Construction. – 2015. – Vol. 7, № 4. – p. 16–41. – DOI: dx.doi.org/10.15828/2075-8545-2015-7-4-16-41.
173. Kudryavtsev P.G., Figovsky O.L. Method of Producing Soluble Silicates with Organic Cations. Invention, US Patent 9,695,111; Publication Date: July 4, 2017; EFS ID: 23560614, Application US Patent Number: 14860708, Receipt Date: 22-SEP-2015.
174. Kudryavtsev P.G. Synthesis of sodium and potassium alkoxides using electrochemical methods. Israelectrochemistry 2015 in the memory of Prof. Chaim Yarnitzky, Ber Sheva, Book of Abstracts,
https://drive.google.com/file/d/0B_Jqpd9oja5vWjV4YS0zM2lWZTVHc2R4XzJFZUxpVjI0N2Rr/view
175. Kudryavtsev P.G., Kudryavtsev N.P., Kudryavtsev I.P. Nanocomposite alumina-silica-flocculants-coagulants, Current Issues of Ecological Safety: Cleaning of Water Sources and Air Basin; Recycling of Municipal Solid Waste, Book of Abstracts, p.11, 2015, Jerusalem.
176. Kudryavtsev P., Figovsky O. The sol-gel technology of porous composites. Monograph, LAP Lambert Academic Publishing, 2015, ISBN 978-3-659-78529-0, 466 p.
177. Kudryavtsev P., Figovsky O. Nanocomposite Organomineral Hybrid Materials. Journal "Scientific Israel - Technological Advantages", Vol.17, №3, 2015, pp.7-60, ISSN: 1565-1533
178. Kudryavtsev P.G., Kudryavtsev N.P., Kudryavtsev I.P. Synthesis of sodium and potassium alkoxides using electrochemical methods, Engineers Don Gazette, №4, 2015,
http://www.ivdon.ru/uploads/article/pdf/IVD_143_Kudryavtsev.pdf_3d5b4a6d61.pdf
179. Kudryavtsev P.G., Figovsky O.L. Prospects of creating nanocomposites based on hybrid organic-silicate matrix. Problems innovative biosphere-compatible social and economic development in the construction, housing, utilities, and road complexes: Materials IV Intern. scientific practical. Conf. (Bryansk, 1-2 December. 2015), is devoted. 55th anniversary of the building of the Faculty and the 85th anniversary of BGITU. V.1, p. 57-67.
180. Kudryavtsev P.G., Makrinich G.B., Figovsky O.L. An embodiment of the controlled thermonuclear fusion in transient conditions. Engineers Don Gazette, №1, 2016,
http://www.ivdon.ru/uploads/article/pdf/IVD_3_Figovsky.pdf_18afb80d8e.pdf, pp.1-22
181. Kudryavtsev P.G., Makrinich G.B., Figovsky O.L. Variant of the Controlled Thermonuclear Fusion in Nonstationary Conditions. International Scientific Journal "Alternative Energy and Ecology" (ISJAEE), №01-02, №189-190, 2016, pp.25-36.
182. Kudryavtsev P.G., Makrinich G.B., Figovsky O.L. An embodiment of the controlled thermonuclear fusion in transient conditions Nanotechnology Society of Russia; Published 10.01.2016; 11 p. <http://rusnor.org/pubs/articles/13629.html>

183. Kudryavtsev P.G., Figovsky O.L., Kudryavtsev N.P. Nanocomposites Based on Hybrid Organo-Silicate Matrix. Journal "Scientific Israel- Technological Advantages", Vol.18, № 1, 2016, pp.112-133, ISSN: 1565-1533
184. Kudryavtsev P., Figovsky O., Kudryavtsev N. Advance in Nanocomposites Based on Hybrid Organo-Silicate Matrix. CHEMISTRY & CHEMICAL TECHNOLOGY, Vol. 10, №1, 2016, p.45-53.
185. Kudryavtsev P.G., Figovsky O.L. Nanocomposite Organomineral Hybrid Materials. Part I, Nanotechnologies in construction: A Scientific Internet-Journal, 2015. Vol. 7, № 2. – p. 16–56. DOI: dx.doi.org/10.15828/2075-8545-2016-8-1-16-56.
186. Kudryavtsev P.G., Figovsky O.L. Nanocomposite Organomineral Hybrid Materials. Part II. Nanotechnologies in construction: A Scientific Internet-Journal, 2016. Vol. 8, № 2. – p. 20–44. DOI: dx.doi.org/10.15828/2075-8545-2016-8-2-20-44
187. Figovsky O., Beilin D., Usherenko S., Kudryavtsev P. Environmental friendly method of production of nanocomposites and nanomembranes. Journal "Scientific Israel-Technological Advantages", Vol.18, № 2, 2016, pp.55-106, ISSN: 1565-1533.
188. Kudryavtsev P., Figovsky O. Nanostructured organic alkali-soluble silicate for industrial application. VIII International Scientific-Technical Conference «Advance in Petroleum and Gas Industry and Petrochemistry», Book of abstracts, Lviv, May 16–21, 2016, p.58
189. Kudryavtsev P., Figovsky O. Application of ultracentrifugation method for determining particle sizes in the colloidal solutions of metal oxides. Journal of Architecture and Construction, №2 (27), 2016, pp.21-32.
190. Kudryavtsev P.G., Figovsky O.L. Nanocomposite organomineral hybrid materials. Part 3. Nanotehnologii v stroitel'stve. Nanotechnologies in Construction. 2016, Vol. 8, no. 3, pp. 16–49. DOI: dx.doi.org/10.15828/2075-8545-2016-8-3-16-49.
191. Kudryavtsev P.G. Kudryavtsev N.P. New high-tech composite flocculants-coagulants as an alternative to the known reagents for water treatment, International Scientific Journal "Alternative Energy and Ecology" (ISJAE), №11-12, (199-200), 2016, p.93-103, doi: 10.15518/isjaee.2016.11-12.093-103
192. Kudryavtsev P.G., Figovsky O.L. System of storage and hydrogen generation for power propulsion systems and cars, International Scientific Journal "Alternative Energy and Ecology" (ISJAE), №13-14, (201-202), 2016, p.46-55, doi: 10.15518/isjaee.2016.13-14.046-055.
193. Kudryavtsev P.G. Lithium: Global Reserves and Application Prospects, International Scientific Journal "Alternative Energy and Ecology" (a), №13-14, 2016, p.72-88, DOI: <http://dx.doi.org/10.15518/isjaee.2016.13-14.072-088>
194. Kudryavtsev P.G. Lithium In Nature, Application, Methods of Extraction (Review), Journal "Scientific Israel-Technological Advantages", Vol.18, № 3, 2016, pp.63-83, ISSN: 1565-1532
195. Kudryavtsev P.G., Kudryavtsev N.P. New Composite Flocculants – Coagulants as an Alternative to the Known Water Treatment Agents. Journal "Scientific Israel-Technological Advantages", Vol.18, № 3, 2016, pp.84-97, ISSN: 1565-1533

196. Kudryavtsev P.G., Figovsky O.L. Method and apparatus for manufacturing membranes by processing thin-film materials with a flow of electrically charged solid particles. Invention, EFS ID: 26833729, Application US Patent Number: 15256657, Receipt Date: 5-SEP-2016, 1-39.
197. Kudryavtsev P., Kudryavtsev N. Combined Synthesis of Sodium and Potassium Alkoxides Using Electrochemical Methods, Biological and Chemical Research, Vol.3, Issue 9, 2016, p.253-264
198. Kudryavtsev P.G., Kudryavtsev N.P. Matrix-isolated nanocomposites - alumina-silicon flocculants-coagulants, 34th IVS Annual Meeting, September 12th, 2016, Ben Gurion University of the Negev, Beer-Sheva, p. 112.
199. Kudryavtsev P.G., Figovsky O.L. Nanostructured organic alkali-soluble silicate for industrial application, 34th IVS Annual Meeting, September 12th, 2016, Ben Gurion University of the Negev, Beer-Sheva, p. 127.
200. Kudryavtsev P., Makrinich G., Figovsky O. Embodiment of the Controlled Thermonuclear Fusion in Nonstationary Conditions, Journal "Scientific Israel-Technological Advantages", Vol.18, № 4, 2016, pp.78-88, ISSN: 1565-1533
201. Kudryavtsev P.G., Figovsky O.L. Nanosrtuctured Organic Alkali-Soluble Silicate for Innovative Industrial and Construction Applications, 4th International Conference on Competitive Materials and Technology Processes, Miskolc-Lillafüred, Hungary, October 3-7, 2016, p. 133.
202. Kudryavtsev N., Kudryavtsev P., Figovsky O.L. Matrix-Isolated Smart Nanocomposite Materials – Alumina Silicon Flocculants Coagulants, 4th International Conference on Competitive Materials and Technology Processes, Miskolc-Lillafüred, Hungary, October 3-7, 2016, p. 134.
203. Kudryavtsev P.G., Figovsky O.L. Acid-resistant anti-corrosion coatings based on nanostructured composite silicate materials, Proceedings of the V International Scientific and Practical Conference «NANOTECHOILGAS-2016»; Moscow, November 22-24, 2016, Moscow, Oil & Gas, 2016, p. 381-390.
204. Kudryavtsev P.G., Figovsky O.L. Soluble silicates with organic bases for the manufacture of fire-resistant nanostructured coatings, Proceedings of the V International Scientific and Practical Conference «NANOTECHOILGAS-2016»; Moscow, November 22-24, 2016, Moscow, Oil & Gas, 2016, p. 391-396
205. Kudryavtsev P.G., Kudryavtsev N.P., Figovsky O.L. Matrix-isolated nanocomposite flocculants, coagulants for purification of natural and waste waters from oil pollution, Proceedings of the V International Scientific and Practical Conference «NANOTECHOILGAS-2016»; Moscow, November 22-24, 2016, Moscow, Oil & Gas, 2016, p.91-96
206. Kudryavtsev P.G., Figovskiy O.L. Evaluation of the strength of adhesive compounds in the disperse systems. Application of pair potential functions, Adhesives. Sealants. Technologies. 2016, №11, p. 30-38
207. Kudryavtsev P.G., Figovskiy O.L. Evaluation of the strength of adhesive compounds in the disperse systems. Multi-component dispersed systems, Adhesives. Sealants. Technologies. 2016, №12, p. 21-26
208. Kudryavtsev P., Figovsky O. Organic water-soluble silicates for the protective coatings manufacture. The 44th International Waterborne, High-Solids and Powder Coatings Symposium

- for 2017. The University of Southern Mississippi, New Orlean, p.18. Abstract book. Lulu Press Inc. <https://www.waterbornesymposium.com/abstract-book>
209. Kudryavtsev P., Figovsky O. Organic water-soluble silicates for the protective coatings manufacture. The 44th International Waterborne, High-Solids and Powder Coatings Symposium for 2017. Lulu Press Inc. The University of Southern Mississippi, New Orlean, p.86-99. ISBN No: 5 800120 960544
210. Kudryavtsev P.G., Figovsky O.L. Organic water-soluble silicates for protective coatings, Scientific Journal of Construction and Architecture, Issue № 1 (45), 2017, p.58-70, ISSN 2541-7592.
211. Kudryavtsev P.G., Figovsky O.L. Use of electrically charged solid particles flow for track membranes. "Electronic scientific journal «Engineering Journal of Don», №1, 2017, c. 1-32, <http://www.ivdon.ru/ru/magazine/archive/n1y2017/4068>.
212. Kudryavtsev P.G., Figovsky O.L. Heat-resistant inorganic binders. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2017, Vol. 9, no. 2, pp. 66–81. DOI: dx.doi.org/10.15828/2075-8545-2017-9-2-66-81. (In Russian).
213. Kudryavtsev P., Kudryavtsev N., Figovskiy O. Nanostructured Organic Alkali-Soluble Silicates For Industrial Application, Journal of Physical Science and Application, Vol. 7, № 2, 2017, p.36-41, doi: 10.17265/2159-5348/2017.02.006
214. Kudryavtsev P.G., Figovsky O.L. Forecasting strength characteristics of adhesion compounds in disperse systems, Scientific and journalistic journal NBICS - Science. Technology, Vol. 1, No. 1, 2017, p. 96-121. (In Russian).
215. Kudryavtsev P.G., Kudryavtsev N.P., Figovsky O.L. Purification of industrial and waste water using matrix-isolated nanocomposite flocculant-coagulants. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2017, Vol. 9, no. 3, pp. 44–61. DOI: dx.doi.org/10.15828/2075-8545-2017-9-3-44-61. (In Russian).
216. Kudryavtsev P. Heat-resistant inorganic binders, Journal "Scientific Israel-Technological Advantages", 2017, Vol. 19, No. 2, p. 32-37, ISSN: 1565-1533
217. Figovsky O., Kudryavtsev P. Advanced Composites Based on Silicate - Organic Nano-structured Binders, J. Material Sci. Eng., 2017, Vol. 6, № 4 (Suppl), p. 61, ISSN: 2169-0022, DOI: 10.4172/2169-0022-C1-071
218. Kudryavtsev P., Figovsky O. New Method for Manufacturing Membranes by Processing Thin-Film Materials with a Flow of Electrically Charged Solid Particles, Journal "Scientific Israel-Technological Advantages", 2017, Vol. 19, No. 2, p. 38-51, ISSN: 1565-1534.
219. Kudryavtsev P.G., Figovsky O.L. Organic Water Soluble Silicates for the Manufacture of Protective Coatings, CHINA COATINGS JOURNAL, 2017, No 7, p. 52-61
220. Kudryavtsev P., Figovskiy O. Matrix-Isolated Nanocomposites - Alumina-Silicon Flocculants-Coagulants, Journal of Physical Science and Application, Vol. 7, № 3, 2017, p. 25-36, DOI:10.17265/2159-5348/2017.03.003
221. Kudryavtsev P., Kudryavtsev N., Trossman A. New research and development in the field of inorganic composite, Engineers Don Gazette, №3 (2017), c. 1-15

222. Kudryavtsev P.G., Figovsky O.L. Investigation of sol-gel transition by rheological methods. Part I. Experimental methods. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2017, Vol. 9, no. 4, pp. 74–92. DOI: dx.doi.org/10.15828/2075-8545-2017-9-4-74-92. (In Russian).
223. Kudryavtsev P., Figovsky O. Investigation of the sol-gel transition by rheological methods. The 19th International Sol-Gel Conference, Liege, Belgium, 2017.
224. Kudryavtsev P. Kudryavtsev N. Trossman A. New research and development in the field of inorganic composite materials, Journal "Scientific Israel- Technological Advantages", Vol. 19, № 3, 2017, p. 25-39, ISSN: 1565-1533
225. Kudryavtsev P., Kudryavtsev N. Nanocomposite materials based on soluble aluminum compounds, Journal "Scientific Israel-Technological Advantages", Vol. 19, № 3, 2017, p. 40-76, ISSN: 1565-1534
226. Kudryavtsev P.G., Figovsky O.L. Inorganic heat-resistant adhesives. Regional architecture and construction, № 3(32), 2017, c. 21-28.
227. Figovsky O.L., Kudryavtsev P.G., Leikin A.D., Shapovalov L.D., Ioelovich M.Ya. New industrial paint and varnish materials, Russian Coatings Journal, № 10, 2017, p. 20-24
228. Kudryavtsev P., Figovsky O. Rheology of sol-gel transition. The 3rd International Conference on Rheology and Modeling of Materials, Book of Abstracts, Miskolc-Lillafüred, Hungary, October 2-6, 2017, Edited by: Prof. Dr. László A. GÖMZE, ISBN 978-963-12-9919-9, p.128
229. Kudryavtsev P., Kudryavtsev N., Trossman A. New directions of research and development in the field of nanotechnology for the creation and application of inorganic composite materials Part I, Engineers Don Gazette, №3, 2017, c. 1-17, ivdon.ru/ru/magazine/archive/n3y2017/4379
230. Kudryavtsev P. Kudryavtsev N. Trossman A. New directions of research and development in the field of nanotechnology for the creation and application of inorganic composite materials Part II, Engineers Don Gazette, №4, 2017, c. 1-21, ivdon.ru/ru/magazine/archive/n4y2017/4381
231. Kudryavtsev P.G., Figovsky O.L., Kudryavtsev N.P. Nanostructured organic alkali-soluble silicates as a new direction in green chemistry Тезисы 8th Annual Global Congress of Catalysis 2017 (GCC-2017), Green Chemistry Forum, Session 504: Nanomaterials and Technologies for Green Chemistry, p.221.
232. Kudryavtsev P.G., Figovsky O.L. Nanostructured materials based on silicate oligomers with an organic cation. Oligomers-2017: a collection of works of the XII International Conference on the Chemistry and Physicochemistry of Oligomers. Plenary lectures. T.1. / [Ed. - M.P. Berezin]. - Chernogolovka: IPCP RAS, 2017. - p.63-73
233. Kudryavtsev P.G., Kudryashova O.S., Elokhov A.M. The properties of mother liquors of the water-soluble salts production by conversion method, Alternative Energy and Ecology (ISJAE). 2017;(25-27):60-70. (In Russ.) DOI:10.15518/isjaee.2017.25-27.060-070
234. Kudryavtsev P.G., Figovsky O.L. Investigation of sol-gel transition by rheological methods. Part II. Results and discussion. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2017, Vol. 9, no. 5, pp. 76–93. DOI: dx.doi.org/10.15828/2075-8545-2017-9-5-76-93. (In Russian).

235. Kudryavtsev P.G., Figovsky O.L. To the Question of Causal Relationships, Determining the Strength of Adhesive Joints. The Answer to Academician A. A. Berlin // NBICS: Science. Technology. 2017. Vol. 2, No. 2, pp. 174-185
236. Kudryavtsev P.G., Kudryavtsev N.P. Comparison of extraction methods of lithium and its compounds from natural raw materials, Alternative Energy and Ecology (ISJAAE). 2017;(28-30):82-105. (In Russ.) DOI:10.15518/isjaae.2017.28-30.082-105
237. Kudryavtsev P. Kudryavtsev N. Analysis of the world market of lithium. Resources, mining and development prospects, Journal "Scientific Israel- Technological Advantages", Vol.19, № 4, 2017, pp.3-11, ISSN: 1565-1534
238. Kudryavtsev P. Kudryavtsev N. Methods for extraction of lithium from natural raw materials. Journal "Scientific Israel- Technological Advantages", Vol.19, № 4, 2017, pp.13-36, ISSN: 1565-1535
239. Kudryavtsev P. 140 years of discussion about the inorganic nature of oil. It is a new fundamental step in this area, Journal "Scientific Israel- Technological Advantages", Vol.19, № 4, 2017, p.119, ISSN: 1565-1536
240. Kudryavtsev P., Kudryavtsev N., Kristul J. Inorganic ion-exchanger for selective extraction of lithium from lithium-containing natural and industrial brines. US Patent N 10,434,497, Application N 15/841,760; December 14, 2017, pub. October 8, 2019.
241. Kudryavtsev P., Figovsky O., Kudryavtsev N. Cleaning of natural and sewage water using new composite flocculantscoagulants, Engineers Don Gazette, №4, 2017, p.1-18 ivdon.ru/ru/magazine/archive/n4y2017/4572
242. Kudryavtsev P.G., Kudryavtsev N.P., Figovsky O.L. The soluble aluminum compounds and nanocomposite materials based on them. Part I. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 1, pp. 37–62. DOI: dx.doi.org/10.15828/2075-8545-2018-10-1-37-62. (In Russian).
243. Kudryavtsev P., Kudryashova O, Elokhov A. Solubility, density and freezing temperature in multicomponent systems with potassium and calcium nitrates and chlorides. Journal "Scientific Israel- Technological Advantages", Vol.20, № 1, 2018, pp.21-39, ISSN: 1565-1537
244. Kudryavtsev P. Composite materials for manufacture of water destroyable form-forming equipment, Journal "Scientific Israel- Technological Advantages", Vol. 20, № 1, 2018, pp.40-45, ISSN: 1565-1538
245. Kudryavtsev P.G., Kudryavtsev N.P., Figovsky O.L. The soluble aluminum compounds and nanocomposite materials based on them. Part II. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 2, pp. 63–85. DOI: dx.doi.org/10.15828/2075-8545-2018-10-2-63-85. (In Russian).
246. Kudryavtsev P.G., Kudryavtsev N.P., Figovsky O.L. The soluble aluminum compounds and nanocomposite materials based on them. Part III. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 3, pp. 55–92. DOI: dx.doi.org/10.15828/2075-8545-2018-10-3-55-92. (In Russian).

247. Kudryavtsev P.G., Kudryavtsev N.P. Lithium: resources, production and prospects of world market development. Alternative Energy and Ecology (ISJAEE). 2018, №10-12, p.70-81. <https://doi.org/10.15518/isjaee.2018.10-12.070-081>. (In Russian).
248. Kudryavtsev P., Preparation of Initial Compositions in the Manufacture of Water-Dissolved Form-Forming Elements, Journal "Scientific Israel- Technological Advantages", Vol.20, no.2, 2018, p.41-50, ISSN: 1565-1538.
249. Kudryavtsev P. Composition, Structure and Properties of Porous Heat-Resistant Composite Materials, Journal "Scientific Israel- Technological Advantages", Vol.20, no.3, 2018, p.33-58, ISSN: 1565-1539.
250. Kudryavtsev P. Colloidal Solutions in the Preparation of Inorganic Composites and Ceramics. Journal "Scientific Israel- Technological Advantages", Vol.20, no.3, 2018, p.59-70, ISSN: 1565-1539.
251. Kudryavtsev P.G., Kudryavtsev N.P. Wastewater treatment using matrix-isolated nanocomposite flocculant-coagulants, Electronic scientific journal "Engineering Don Gazette", №3 (2018), c.1-32, ivdon.ru/ru/magazine/archive/n3y2018/5045.
252. Kudryavtsev P.G. Homogeneous precipitation of hydrated oxide and its use for the production of composite materials, Electronic scientific journal "Engineering Don Gazette", №3 (2018), c.1-18, ivdon.ru/ru/magazine/archive/n3y2018/5046
253. Kudryavtsev P. Methods of synthesis, properties and application of silica-sols for obtaining composite materials. Part I. Electronic scientific journal "Engineering Don Gazette", №3 (2018), p.1-34, ivdon.ru/ru/magazine/archive/n3y2018/5099
254. Kudryavtsev P. Methods of synthesis, properties and application of silica-zols for obtaining composite materials. Part II. Electronic scientific journal "Engineering Don Gazette", №3 (2018), c.1-22, ivdon.ru/ru/magazine/archive/n3y2018/5100
255. Kudryavtsev P. Investigation of the sol-gel transition by rheological methods. WSEAS Transactions on Heat and Mass Transfer, ISSN / E-ISSN: 1790-5044 / 2224-3461, Vol. 13, 2018, №6, pp. 66-75.
256. Kudryavtsev P. Composition and structure of porous heat-resistant inorganic composite materials. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 4, pp. 75–100. DOI: dx.doi.org/10.15828/2075-8545-2018-10-4-75-100. (In Russian).
257. Kudryavtsev P. Kudryavtsev N. Associated petroleum waters, as a promising source of lithium. International Journal of Petrochemical Science & Engineering, 2018, Vol. 3, No. 4, pp. 144-150
258. Kudryavtsev P.G. Structure of pores in solid porous bodies. Part I. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 5, pp. 80–103. DOI: dx.doi.org/10.15828/2075-8545-2018-10-5-80-103. (In Russian).
259. Kudryavtsev P.G. Self-consistent model of the sol-gel process of film formation on substrates with homogeneous precipitation of hydrated oxide particles. "Electronic scientific journal ""Engineering Don Gazette""", №3, (2018), p.1-16. ivdon.ru/ru/magazine/archive/n3y2018/5126" (In Russian).

260. Kudryavtsev P.G. Production of inorganic composites and ceramics using colloidal solutions. Proceedings of the Rostov branch of the Russian Academy of Engineering, 2018. ISBN 978-5-6040259-9-4, p.1-19. (In Russian).
261. Kudryavtsev P. G., Kudryavtsev N.P. Installation for the preparation of emulsions and suspensions. Proceedings of the Rostov branch of the Russian Academy of Engineering, 2018. ISBN 978-5-6040259-9-4, p.1-19. (In Russian).
262. Kudryavtsev P.G. Structure of pores in solid porous bodies. Part II. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2018, Vol. 10, no. 6, P. 80–111. – DOI: dx.doi.org/10.15828/2075-8545-2018-10-6-80-111. (In Russian).
263. Kudryavtsev P.G. Preparation of Inorganic and ceramic composites using colloidal solutions. Electronic scientific journal "Engineering Don Gazette", №4 (2018) ivdon.ru/ru/magazine/archive/n4y2018/5333. P.1-30. (In Russian).
264. Kudryavtsev P. Kudryavtsev N. Kudryavtsev I. Inorganic ion-exchanger for selective extraction of lithium from lithium-containing natural and industrial brines. USA Patent Application N 16/274,812; EFS ID 35140770, February 13, 2019.
265. Kudryavtsev P. Research and Simulation of Hydrated Alumina Homogeneous Precipitation and Its Application to Obtain a Carrier for Catalysts in the Petrochemical Industry. International Journal of Petrochemical Science & Engineering, 2019; vol. 4, No2: pp.72–79.
266. Kudryavtsev P. Silica Sols - Synthesis Methods, Properties and Applications. Journal "Scientific Israel- Technological Advantages", Vol.20, no.5-6, 2018, p.15-38.
267. Kudryavtsev P. Simulation of the properties and behavior of individual particles of silica sols. Journal "Scientific Israel- Technological Advantages", Vol.20, no.5-6, 2018, p.39-46
268. Kudryavtsev P. Fixation of singular points in the sol-gel transition by rheological methods. Journal "Scientific Israel- Technological Advantages", Vol.20, no.5-6, 2018, p.47-61.
269. Kudryavtsev P. Kudryavtsev N. Installations for the preparation of emulsions and suspensions. Journal "Scientific Israel- Technological Advantages", Vol.20, no.5-6, 2018, p.62-72.
270. Kudryavtsev P., Kudryavtsev N. Technological capabilities of lithium extraction from associated oil brines. Journal "Scientific Israel- Technological Advantages", Vol.21, no.2-3, 2019, p.94-105
271. Kudryavtsev P., Kudryavtsev N. The main ways of creating porous composite materials. Journal "Scientific Israel- Technological Advantages", Vol.21, no.2-3, 2019, p.67-93
272. Kudryavtsev P. Pore System in the Structure of Solid Porous Bodies. Journal "Scientific Israel- Technological Advantages", Vol.21, no.2-3, 2019, p.41-66
273. Kudryavtsev P. Kudryavtsev N. Kudryavtsev I. Method of obtaining Inorganic Sorbents for Extraction of Lithium from Lithium-Containing Natural and Technological Brines. USA Patent Application Number: 16/504,191; EFS ID: 36508782; Confirmation Number: 6848; Receipt Date: 05-JUL-2019; Time Stamp: 21:04:26, 5 July 2019
274. Kudryavtsev P. Lithium Isotope Separation by Combining Ion Exchange and Electrochemical Amalgam Methods. Israelectrochemistry 2019, Book of Abstracts, p.19.
275. Kudryavtsev P. Application of Methods of Statistical Thermodynamics for Modeling Equilibrium in Polyfunctional Ion-Exchangers. Journal "Scientific Israel-Technological Advantages", Vol.21, no.4, 2019, p.49-74

276. Kudryavtsev P. Kudryavtsev N. Installation for separation of polyhydric alcohols and metal formats. Journal "Scientific Israel-Technological Advantages", Vol.21, no.4, 2019, p.37-48
277. Kudryavtsev P.G. Properties of porous heat-resistant composition materials. Part I. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2019, Vol. 11, no. 6, pp. 623–639. DOI: 10.15828/2075-8545-2019-11-6-623-639.
278. Kudryavtsev P. Dissociation Constants of Hydrated Oxides of chemical elements in the D.I. Mendeleev Periodic System. Journal "Scientific Israel-Technological Advantages", Vol. 21, no.5-6, 2019, p.38-81.
279. Kudryavtsev P. The New Device for Storage and Generation of Hydrogen. Journal "Scientific Israel-Technological Advantages", Vol.21, no.5-6, 2019, p.97-107.
280. Kudryavtsev P. Kudryavtsev N. Underground Brains as a Perspective Lithium Source. New stages of development of modern science in Ukraine and EU countries. – 4th ed. – Riga, Latvia: "Baltija Publishing", 2019. – 260 p., ISBN: 978-9934-588-15-0, p.230-255. DOI: <https://doi.org/10.30525/978-9934-588-15-0>.
281. Kudryavtsev P.G. Properties of porous heat-resistant composition materials. Part II. Nanotehnologii v stroitel'stve = Nanotechnologies in Construction. 2020, Vol. 12, no. 1, pp. 15–20. DOI: 10.15828/2075-8545-2020-12-1-15-20.
282. Kudryavtsev P.G. Patterns of change in the dissociation constants of hydrated oxides of chemical elements in the Periodic system Mendeleev. LAP LAMBERT Academic Publishing, 101 pp. ISBN 978-620-0-58655-1.
283. Kudryavtsev P. Dissociation constants of hydrated oxides. Correlation with the crystal chemical properties of ions of chemical elements in the Mendeleev's Periodic system. LAP LAMBERT Academic Publishing, 93 c. ISBN 978-620-0-65592-9.

Professor,
Academician of the RANS and IAELPS

Kudryavtsev P.G.

22 February 2020