

## References

1. V.A. Koptuyug, Arenonium Ions. Structure and Reactivity (in Russian) , Nauka, Novosibirsk (1983).
2. R.A. Rossi, A.B. Pierini, A. B. Penenory. *Chem. Rev.*, **103**, 71 (2003)
3. *Grignard Reagents. New Developments.* (Ed H.G. Richey, Jr.). Wiley Interscience, New York, 2000
4. D. Laage, I. Burghart, T. Sommerfeld, J.T. Hynes. *ChemPhysChem.*, **4**, 61 (2003)
5. O.A. Anisimov, V.M. Grigoryants, V.K. Molchanov, Yu.N. Molin. *Chem. Phys. Lett.*, **66**, 265, (1979)
6. V.D. Shteingarts, L.S. Kobrina, I.I. Bilkis, V.F. Starichenko, Khimiia Poliflorarenov: Mekhanizm Reaktsii, Intermediaty (in Russian), Novosibirsk, "Nauka," Sibirskoe otd-nie , 1991
7. P. Kirsch. *Modern Fluoroorganic Chemistry. Synthesis, Reactivity, Applications.* – Wiley-VCH Verlag GmbH & Co., Weinheim, 2004
8. *Chemistry of Organic Fluorine Compounds II.* ACS Monograph 187. (Eds. M. Hudlicky, A.E. Pavlath). American Chemical Society, Washington, 1995
9. N. Ishikawa, Fluorine Compounds. Chemistry and Application, Tokyo: CMC, 1987.
10. *Organofluorine Chemistry. Principles and Commercial Applications.* (Eds. R.E. Banks, B.E. Smart, J.C. Tatlow). Plenum Press, New York, 1994
11. *Organo-fluorine Compounds in Medicinal Chemistry and Biomedical Applications.* (Eds. R. Filler, Y. Kobayashi, L.M. Yagupolskii). Elsevier, Amsterdam, 1993
12. R.E. Banks. *Fluorine in Agriculture.* Fluorine Technology Ltd, Manchester, 1994
13. N.M. Bazhin, N.E. Akhmetova, L.V. Orlova, V.D. Shteingarts, L.N. Shchegoleva, G.G. Yakobson. *Tetrahedron Lett.*, 4449 (1968)
14. N.M. Bazhin, Yu.V. Pozdnyakovich, V.D. Shteingarts, and G. G. Yakobson, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 2300 (1969)
15. N.E. Akhmetova, N.M. Bazhin, Yu.V. Pozdnyakovich, V.D. Shteingarts, L.N. Shchegoleva,. *Teor. i Exper. Khimia*, **10**, 487 (1974)
16. L.N. Shchegoleva, Yu.A. Kruglyak. in *Khimiia Karbokationov* (ed. V.A. Koptuyug) (in Russian), Novosibirsk, "Nauka", Sibirskoe otd-nie , 1979, 125.

17. L.N. Shchegoleva *Kvantovokhimiticheskoe Izuchenie Stroeniya i Svoistv Nekotorykh poliftoraromaticeskikh Molekul I Kation-Radikalov*. Diss. kand. khim. nauk, Novosibirsk, 1980
18. A.S. Mendkovich, V.P. Gulyai *Teoreticheskie Osnovy Khimii Organicheckikh Anion-Radikalov*. Moskva, "Nauka", 1990.
19. S.B. Todres Z.V. *Ion-radical organic chemistry: principles and applications*. - 2nd ed. - Boca Raton; London: CRC, 2009.
20. M. Shiotani, F. Williams. *J. Am. Chem. Soc.*, **98**, 4006 (1976)
21. F. Williams, M.B. Yim, D.E. Wood. *J. Am. Chem. Soc.*, **95**, 6475 (1973)
22. C.R. Brundl, M.B. Robin, N.A. Kuebler, H. Basch. *J. Am. Chem. Soc.*, **94**, 1451 (1972)
23. J.R. Frasier, L.G. Christophorou, J.G. Carter, H.C. Schweinler. *J. Chem. Phys.*, **69**, 3807 (1978)
24. M.C.R. Symons, R.C. Selby, J.G. Smith, S.W. Bratt. *Chem. Phys. Lett.*, **48**, 100 (1977)
25. L.N. Shchegoleva, I.I. Bilkis, P.V. Schastnev. *Chem. Phys.*, **82**, 343 (1983)
26. L.N. Shchegoleva, I.V. Beregovaya, P.V. Schastnev. *In Proceedings of the 10th Int. Symp. on the Jahn-Teller Effect*. Kishinev, 1989. P. 209
27. L.N. Shchegoleva, P.V. Schastnev. *Chem. Phys.*, **130**, 115 (1989)
28. . . P.V. Schastnev, L.N. Shchegoleva. *Strukturnye Iskazheniya Molekul v Ionnykh I Vozbuzhdennykh Sostoyaniyakh* (in Russian), Novosibirsk, "Nauka", 1992.
29. P.V. Schastnev, L.N. Shchegoleva. *Molecular Distortions in Ionic and Excited States*. CRC Press, Boca Raton, FL, 1995
30. L.N. Shchegoleva, I.V. Beregovaya, P.V. Schastnev. *Chem. Phys. Lett.*, **312**, 325 (1999)
31. C.C.J. Roothaan. *Rev. Mod. Phys.*, **23**, 69 (1951)
32. C.C.J. Roothaan. *Rev. Mod. Phys.*, **32**, 179 (1960)
34. M.W. Schmidt, K.K. Baldrige, J.A. Boatz, S.T. Elbert, M.S. Gordon, J.H. Jensen, S. Koseki, N. Matsunaga, K.A. Nguyen, S.J. Su, T.L. Windus, M. Dupuis, J.A. Montgomery. *J. Comput. Chem.*, **14**, 1347 (1993)
35. D.M. Rogers, J.J.W. McDouall. *Phys. Chem. Chem. Phys.*, **2**, 447 (2000)
36. A.F. Izmaylov, L.N. Shchegoleva, G.E. Scuzeria, A. Zaitsevskii. *Phys. Chem. Chem. Phys.*, **7**, 3933 (2005)

37. I. B. Bersuker, V. Z. Polinger Vibronic interactions in molecules and crystals, Springer-Verlag, New York, 1989.
38. L.N. Shchegoleva, I.V. Beregovaya, P.V. Schastnev. *Chem. Phys. Lett.*, **312**, 325 (1999)
39. Ph.R. Bunker, P. Jensen. *Molecular Symmetry and Spectroscopy*. NRC Research Press, Ottawa, 1998
40. I.B. Bersuker. *Chem. Rev.*, **101**, 1067 (2001)
41. V.G. Boltyanskii, V.A. Efimovich. *Visual Topology*. . Moskow, "Nauka", 1983.
42. V.P. Vysotsky, G.E. Salnikov, L.N. Shchegoleva. *Int. J. Quant. Chem.*, **100**, 469 (2004)
43. V.P. Vysotskii, L.N. Shchegoleva. *J. Struct. Chem.*, **44**, 946 (2003)
44. A. Hasegawa, Y. Itagaki, M. Shiotani. *J. Chem. Soc., Perkin Trans. 2.*, 1625 (1997)
45. V.E. Bondybey, J.H. English, T.A. Miller. *J. Mol. Spectrosc.*, **84**, 124 (1980)
46. M.H. Suh, S.K. Lee, B.D. Rehfuss, T.A. Miller, V.E. Bondybey. *J. Phys. Chem.*, **95**, 2727 (1991)
47. M.M. Barlukova, I.V. Beregovaya, V.P. Vysotsky, L.N. Shchegoleva, V.A. Bagryansky, Yu.N. Molin. *J. Phys. Chem. A*, **109**, 4404 (2005)
48. M.M. V'yushkova, I.V. Beregovaya, V.P. Vysotskii, L.N. Shchegoleva, V.A. Bagryanskii, Yu.N. Molin. *Doklady Phys. Chem.*, **403**, Part 2, 142 (2005)
49. I.V. Beregovaya. *Poverkhnosti Potentsial'noi Energii i Monomolekulyarnyi Raspad Anion-Radikalov Ftor- i Khlorproizvodnykh Benzola*. Diss. Kand. Fiz.-Mat. Nauk, Novosibirsk, 2002.
50. L.N. Shchegoleva. *Strukturnye Iskazheniya Ion-Radikalov Aromaticeskikh I Nenasyshchennykh Molekul*. Diss. Doct. Khim. Nauk, Moskva, 2007.
51. M.B. Yim, D.E. Wood. *J. Am. Chem. Soc.*, **98**, 2053 (1976)
52. M.B. Yim, S. Di Gregorio, D.E. Wood. *J. Am. Chem. Soc.*, **99**, 4260 (1977)
53. V.V. Lozovoy, V.M. Grigoriants, O.A. Anisimov, Yu.N. Molin, P.V. Schastnev, L.N. Shchegoleva, I.I. Bilkis, V.D. Shteingarts. *Chem. Phys.*, **112**, 463 (1987)
54. A. Carrington, A.D. McLachlan. *Introduction to magnetic resonance with applications to chemistry and chemical physics*. Harper & Row, 1967
55. M.M. Vyushkova, V.P. Vysotsky, I.V. Beregovaya, L.N. Shchegoleva, V.A. Bagryansky, Yu.N. Molin. *Mendeleev Commun.*, 151 (2006)

56. I.V. Beregovaya, V.P. Vysotskii, L.N. Shchegoleva, M.M. V'yushkova, V.A. Bagryanskii, Yu.N. Molin. Reports on 48-th Russian Symposium "Modern Chemical Physics" (Tuapse, Russia, 2006) P. 54
57. L.N. Shchegoleva, P.V. Schastnev. *Z. Phys. Khim.*, **65**(1991),1789
58. V. V. Konovalov, S. S. Laev, I.V. Beregovaya, L.N.Shchegoleva, V. D Shteingarts, Yu. D. Tsvetkov, I. I Bilkis. *J. Phys. Chem. A*, **104**, 352 (2000)
59. V.I. Krasnov, V.E. Platonov, I.V. Beregovaya, L.N.Shchegoleva. *Tetrahedron*, **53**, 1797 (1997)
60. I.V. Beregovaya, L.N.Shchegoleva. *Chem. Phys. Lett.*, **348**, 501 (2001)
61. I.V. Beregovaya, V.P. Vysotskii, L.N. Shegoleva. *J. Struct. Chem.*, **47**, 211 (2006)
62. D.D. Clarke, C.A. Coulson. *J. Chem. Soc. A*, 169 (1969)
63. A. Modelli, M. Venuti. *J. Phys. Chem. A*, **105**, 5836 (2001)
64. L.G. Christophorou, R.N. Compton, G.S. Hurst, P.W. Reinhardt. *J. Chem. Phys.*, **45**, 4634 (1966)
65. A.B.Pierini, D.M.A. Vera. *J.Org.Chem.*, **68**, 9191 (2003)
66. N. Alam, C. Amatore, C. Combellas, A. Thiébault, J.N. Verpeaux. *J. Org. Chem.*, **55**, 6347 (1990)
67. P. Neta, D. Behar. *J. Amer. Chem. Soc.*, **103**, 103 (1981)