1. What is the influence of pressure on soot formation process?

2. What do you know about the threshold of soot formation?

3. Can you give the explanation of soot formation in diesel engines?

4. What do you think of cool-sooting combustion of hydrocarbons?

5. What do you think of the structure of the flame front?

6. What do you know about formation of РАH in low-temperature sooty flames, soot formation in an electric field?

7. Can you explain the temperature profiles of cool-sooting combustion of hydrocarbons?

8. Can you explain rentgenographic analysis results of soot samples?

9. How would you describe polyyne model of soot formation?

10. Can you give detailed modeling of soot formation and PАH?

11. What is the idea of polyaromatic model of soot formation?

12. How formation of the first aromatic ring is conducted?

13. Can you give the description of ion model of soot formation?

14. How would you describe some observations beginning of the formation of soot?

15. How would you describe control of the formation of PCAHs and soot in a flame?

16. How influence of an electric field on the formation of PCAHs and soot?

17. How influence of metal-containing agents on the formation of PCAHs and soot?

18. How formation of the first aromatic ring is conducted?

19. How would you describe some observations beginning of the formation of soot?

20. Can you tell about history of fullerenes?

21. What kind of methods for synthesis of fullerenes do you know?

22. Can you describe the method of synthesis of fullerenes in the arc vaporization of graphite?

23. Which type of methods for identification of fullerenes do you know?

24. What do you think of synthesis of fullerenes in flame?

25. What is difference between synthesis of fullerenes in flames with electric field and without the electric field?

26. What are properties of fullerenes?

27. Can you describe physical properties of fullerenes?

28. Can you list solubility of C60 in various solvents?

29. Can you tell about history of carbon nanotubes?

30. What kind of methods of synthesis carbon nanotubes do you know?

31. Can you describe the method of synthesis carbon nanotubes in the arc vaporization of graphite?

32. Which type of methods of investigation carbon nanotubes do you know?

33. What do you think of synthesis of carbon nanotubes in flame?

34. How do you what type of methods of obtaining of carbon nanotubes is better?

35. What kind of properties has carbon nanotube?

36. Can you describe of physical properties of carbon nanotubes?

37. Can you tell about history of superhydrophobic surface?

38. What kind of methods of obtaining superhydrophobic surface do you know?

39. Which type of methods for identification of fullerenes do you know?

40. What do you think of synthesis of hydrophobic soot in flame?

41. Can you tell about history of graphene?

42. What kind of methods for producing graphene do you know?

43. Can you describe the method of synthesis of graphene by the micromechanical exfoliation of graphite?

44. What types of methods for identification of graphene do you know?

45. What do you think of synthesis of graphene in flame?