CLAIMS:

1. An article for filtration, separation or storage of fluid components comprising a) one or more types of interactive particles and b) 0.5-30% weight, preferably from 1 to 20 weight percent of one or more types of crosslinked thermoplastic polymer binder particles based on total weight of interactive particles and crosslinked thermoplastic polymer binder particles, wherein at least one of the crosslinked thermoplastic polymer binder particles are selected from the group consisting of fluoropolymers, polyamides, acrylic polymers, polyimides, polyurethanes, styrenic polymers, polyolefins, polyesters, polyvinyl chlorides, polycarbonate, thermoplastic polyurethane and combinations thereof.
2. The article of claim 1, wherein said interactive particles are selected from metallic particles, activated alumina, activated carbon, carbon nanotubes, silica gel, glass beads, silica, titanium dioxide, wood chips, ion-exchange resins, zeolites including ion-exchange modified zeolites and silver modified zeolites, ceramics, diatomaceous earth, talc, graphite, carbon black, metal oxides, lithium ion-transition metal salts such as silver and copper salts, calcium hydroxyapatite, phosphates, oxides and sulfates.
3. The article of claim 1, wherein said interactive particles are selected from the group consisting of activated carbon, zeolites, ceramics, hydroxyapatite, titanium dioxide.
4. The article of claim 1, wherein said interactive particles comprise activated carbon.
5. The article of any of claims 1 to 4, wherein said crosslinked thermoplastic polymer is selected from fluoropolymers, polyamides, acrylic polymers, styrenic polymers, polyolefins, polyesters.
6. The article of any of claims 1 to 4, wherein said crosslinked thermoplastic polymer binder particles comprise fluoropolymers, wherein said fluoropolymers are selected from the group consisting of vinylidene fluoride homopolymers, vinylidene fluoride copolymers, tetrafluoro ethylene homopolymers, tetrafluoro ethylene copolymers, chlorotrifluoroethylene homopolymers and chlorotrifluoroethylene copolymers.
7. The article of any of claims 1 to 6, wherein said crosslinked thermoplastic polymer particles have a core-shell structure.
8. The article of any of claims 1 to 7, wherein said crosslinked thermoplastic polymer has a complex viscosity of greater than 10^8 sec^{-1} when measured by ASTM D4440-01 at a temperature of 230ºC and a frequency of 0.1 Hz.

9. The article of any of claims 1 to 8, wherein said crosslinked thermoplastic polymer particles are in the form of a powder with an average particle size of 1 micron to 250 microns, preferably 5 to 30 microns.
10. The article of any of claims 1 to 8, wherein said crosslinked thermoplastic polymer particles have an average particle size of 20 nanometers to 250 microns, preferably 100 nanometers to 150 micron, more preferably 200 nm to 30 microns, most preferably 200 nanometers to 20 microns.
11. The article of claim 1 wherein said article comprising a) at least 70% by weight of interactive particles and b) 0.5-30% by weight of crosslinked thermoplastic polymer binder particles based on total weight of the article.
12. The article of claim 11, wherein said interactive particles are selected from metallic particles, activated alumina, activated carbon, carbon nanotubes, silica gel, glass beads, silica, titanium dioxide, wood chips, ion-exchange resins, zeolites including ion-exchange modified zeolites and silver modified zeolites, ceramics, diatomaceous earth, talc, graphite, carbon black, metal oxides, lithium ion-transition metal salts such as silver and copper salts, calcium hydroxyapatite, phosphates, oxides, sulfates and combinations thereof.
13. The article of any of claims 1 to 12, wherein said crosslinked thermoplastic polymer is selected from the group consisting of fluoropolymers, polyamides, acrylic polymers, polyimides and combinations thereof.
14. The article of any of claims 1 to 13, wherein said crosslinked thermoplastic polymer particles is in the form of a powder made of agglomerate of discrete thermoplastic polymer particles, where the average particle size of the discrete particles is 80 nanometers to 500 nanometers.
15. The article of claim 11, wherein said interactive particles comprise activated carbon.
16. A method for separating components of a fluid comprising the steps of a) providing the article of any of claims 1 to 15, and b) passing a fluid through the article, wherein select components of the fluid remain within the article.
17. The method of claim 16, wherein said fluid is selected from the group consisting of gases, water, organic solvents, pharmaceutical preparations and biologic preparation.