CLAIMS

1. A 3D printed three-dimensional solar photovoltaic system comprising:

a solar structure comprising:

a substantially flat 3D polygon solar frame having an uneven surface, and

a plurality of solar cells positioned with the substantially flat solar frame;

a reflective surface positioned underneath the solar frame, the reflective surface configured to reflect sunlight,

wherein the plurality of solar cells are oriented at various angles with respect to said reflective surface,

wherein said plurality of solar cells are configured to receive sunlight.

2. The system of claim 1, wherein the solar frame is manufactured via a 3D printer.

3. The system of claim 1, wherein said plurality of solar cells are configured to receive sunlight from the top and bottom of the photovoltaic system.

4. The system of claim 1, wherein the solar frame is transparent.

5. The system of claim 1, wherein the plurality of solar cells are two-sided such that the plurality of solar cells are configured to receive sunlight both directly from the sun and from said reflective surface.

6. The system of claim 1, wherein the plurality of solar cells are faced back-to-back

can be absorbed from the top and bottom of design

7. The system of claim 1, wherein the solar frame is a lattice.

8. The system of claim 7, wherein sunlight is configured to pass through the lattice structure of the solar frame.

9. The system of claim 1, wherein the reflective surface is selected from a group consisting of a mirror, glass beads, reflective paint, ceramic beads, microcrystalline ceramic beads, and diamond-studded plate, and combinations thereof.

10. The system of claim 1, wherein each of the plurality of solar cells comprises a first photovoltaic cell.

11. The system of claim 10, wherein the first photovoltaic cell comprises a plurality of nanoscale pores and an absorption wafer; and the plurality of nanoscale pores traversing into the absorption wafer.

12. The system of claim 1, wherein each of the plurality of solar cells are perimetrically connected to the solar frame.

13. The system of claim 1, further comprising a concentrated photovoltaic lens having a pentagonal shape located within the solar frame.

14. The system of claim 1, wherein the plurality of solar cells form a polyhedron arrangement.

15. The system of claim 1, wherein the plurality of solar cells are triangular, pentagonal or are 3D polygons.

16. The system of claim 1, wherein the substantially flat 3D polygon solar frame is made of a plastic or polymer material.

17. The three-dimensional photovoltaic module of claim 1, wherein the substantially flat 3D polygon solar frame is made of a plurality of sections having a polygon configuration.

18. A three-dimensional solar photovoltaic system comprising:

a solar structure comprising:

a substantially flat solar frame having an uneven surface, and

a plurality of solar cells positioned with the substantially flat solar frame;

a reflective surface positioned underneath the solar frame, the reflective surface configured to reflect sunlight,

wherein the plurality of solar cells are oriented at various angles with respect to said reflective surface,

wherein said plurality of solar cells are configured to receive sunlight.

19. The system of claim 18, wherein the solar frame is a substantially flat mountainous 3D Solar Frame.