CLAIMS

1. A light detector comprising:

a plurality of light absorbers including:

a first light absorber configured to:

select first light from incident light, and

absorb the selected first light,

wherein the first light absorber includes one or more first features, the one or more first features includes at least one of a plurality of first slits, a first mesh, and a first plate absorber, the one or more first features selective to the selected first light; and

a second light absorber configured to:

select second light from the incident light, and

absorb the selected second light,

wherein the second light absorber includes one or more second features, the one or more second features including at least one of a plurality of slits, a second mesh, and a second plate absorber, the one or more second features selective to the selected second light,

wherein the first light absorber overlaps the second light absorber such that at least a portion of light transmitting through the one or more first features is absorbed by the second light absorber,

wherein the first light absorber and the second light absorber are electrically isolated from and thermally coupled to each other; and

a first temperature sensor thermally coupled to the first light absorber;

a plurality of posts including:

a first post configured to thermally couple the first light absorber to the first temperature sensor, and a second post configured to thermally couple the second light absorber to a second temperature sensor.

2. The light detector of claim 1, further comprising:

a first electrical insulator thermally coupled to the first light absorber and the first temperature sensor,

wherein the first electrical insulator electrically isolates the first light absorber from the second light absorber, and

further wherein the first temperature sensor thermally couples the first light absorber to the second light absorber.

3. The light detector of claim 1,

wherein the plurality of light absorbers further include:

a third light absorber configured to:

select third light from the incident light, and

absorb the selected third light, and

a fourth light absorber configured to:

select fourth light from the incident light, and

absorb the selected fourth light.

4. The light detector of claim 1, wherein the plurality of light absorbers includes a plurality of wires that form a capacitive resonant mesh, wherein the absorbed light is selected based on at least a spacing of the plurality of wires.

5. The light detector of claim 1, where the plurality of light absorbers is configured to select the absorbed light from a range of wavelengths, wherein the range of wavelengths is associated with lengths of edges of the plurality of light absorbers and a spacing of respective features included in the plurality of light absorbers.

6. The light detector of claim 1, further comprising:

a reflector configured to reflect incident light, wherein the reflector is thermally coupled to at least one of the plurality of light absorbers,

wherein the sensor is thermally coupled to at least one of the plurality of light absorbers through the reflector.

7. The light detector of claim 6, wherein an absorbing surface of at least one of the plurality of light absorbers faces the reflector.

8. The light detector of claim 6, wherein a distance between an absorbing surface of at least one of the plurality of light absorbers and the reflector is equal to a quarter of a wavelength of the selected first light or a quarter of a wavelength of the selected second light.

9. The light detector of claim 1, further comprising:

an encapsulation disposed on at least a portion of the first light absorber and including a transparent material.

10. The light detector of claim 1, further comprising:

a plurality of another light absorbers including:

a fifth light absorber configured to absorb light, and

a sixth light absorber configured to absorb light; and

at least one another electrical isolator configured to electrically isolate the fifth light absorber from the sixth light absorber,

and

wherein the sensor is thermally coupled to the fifth light absorber and the sixth light absorber.

11. A method for operating a light detector, the method comprising:

electrically isolating a plurality of light absorbers from each other, the plurality of light absorbers including a first light absorber and a second light absorber , wherein the first light absorber and the second light absorber overlap;

thermally coupling the plurality of light absorbers to each other and to a sensor;

biasing the plurality of light absorbers;

selecting first light from incident light and absorbing the selected first light using the first light absorber;

selecting second light from incident light and absorbing the second light using the second light absorber, wherein at least a portion of light not absorbed by the first light absorber is absorbed by the second light absorber; and

measuring one or more of a change in resistance and a change in temperature of the plurality of light absorbers using the sensor, wherein the measured change is indicative of an absorption of incident light by the light detector.

12. The method of claim 11, further comprising:

redirecting the incident light using a reflector to the plurality of light absorbers, wherein at least one of the plurality of light absorbers are thermally coupled to the sensor using the reflector.

13. The method of claim 11, wherein the plurality of light absorbers are electrically isolated from each other using an encapsulation, and further wherein the plurality of light absorbers are thermally coupled to each other and to the sensor using the encapsulation.