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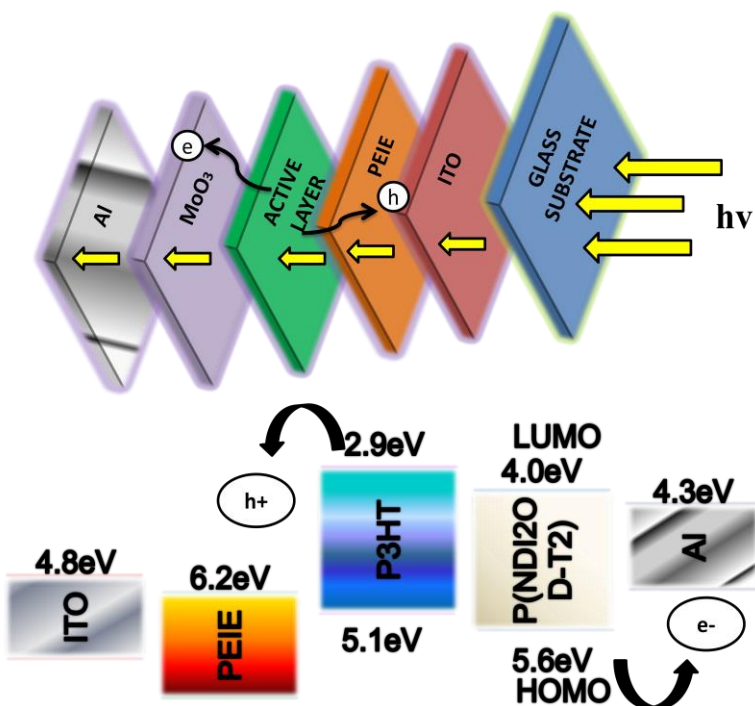
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Graphical abstract



Highlights

- Fullerene free acceptors were used to fabricate organic solar cells
- Halogen-free greener solvent were used to eliminate potential hurdles for manufacturing large scale-up or organic solar cells
- Air brush coating method is used to fabricate donor/acceptor.

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